PA-0035 US

<110> Kaser, Matthew R.

<120> GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES

<130> PA-0035 US

<140> To Be Assigned
<141> Herewith

<150> 60/222,113
<151> 2000-07-28

<160> 401
<170> PERL Program
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<210> 1
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 220060.4

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cgaggcagtc ctgccatcaa tgtggccgtg catgtgttca gaaaggctgc tgatgacacc 180
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ggccccccgcc gctacaccat tgccgccctg ctgagcccct actcctattc caccacggct 420
gtcgtcacca atcccaagga atgaggagtg gacctgaagg acgagggatg ggatttcatg 480
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<210> 2
<211> 263
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> unsure
<222> 22, 26, 42
<223> a, t, c, g, or other

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cattatgtgt aagagactgt gctaggcaat gtgaatgata ctaacatcaa caagatccaa 120
tctttcaggg acgtgatgcc tttaaggatc tggcaagcta gtgatatgtg tcagaaatca 180

1

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tccaaatctc aacagtttaa ttt                                        263
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<210> 3
<211> 212
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<213> Homo sapiens

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<220>
<221> unsure
<222> 42, 161
<223> a, t, c, g, or other

<400> 3
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cctgactgag aagaggacgc tcccgggaga cgaatgagga accacctcct cctactgttc 120
aagtacaggg gcctggtccg caaagggaag aaaagcaaaa nacgaaaatg gctaaattcg 180
tgatccgccc agccactgcc gccgactgca gt                               212
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<210> 4
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 129384.1c

<220>
<221> unsure
<222> 482, 555
<223> a, t, c, g, or other

<400> 4
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ctgctttat acacagacgc ggctctcgcg acctcccctc cggggccccg ataaatacag 120
tatactgcga tttaaattaa gggcgcgggc ggagttagaa ggaccccagg agccgagagg 180
ctccacgaat aaataaaaac cgtaaaaaac caagcccgga gaaaggggaa agcggggtgg 240
ggcgcatcct tataggagag aagaggcgtg tagcgaataa agtgacagcc ccccacccctg 300
gacccgcagg ctcaggagtc cacgcgggga gaggggatgg agaactctcc tcgcttcgtc 360
ctctctcccg gggaatccct aaccccgcat gcgttacctg tcgctttggg gaggccgctg 420
ccgggatccg gccccgaaca gcccgggggg gcaggggcgg gggtcgtcga ggggatgggg 480
gnagagagca ggcggcgggc aggatgcccg gggtgagttg gcgagttccg gatcttcgct 540
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<210> 5
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<212> DNA
<213> Homo sapiens

<220>

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<221> misc_feature
<223> Incyte ID No: 3201389CB1

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cgtaattctg gaattgcatg ttgcaaggag tctcctggat cttcgcaccc agcttcgggt 180
agggagggag tccgggtccc gggctaggcc agcccggcag gtggagaggg tccccggcag 240
ccccgcgcgc ccctggccat gtctttaatg ccctgcccct tcatgtggcc ttctgagggt 300
tcccagggct ggccagggtt gtttcccacc cgcgcgcgcg ctctcacccc cagccaaacc 360
cacctggcag ggctccctcc agccgagacc ttttgattcc cggctcccgc gctcccgcct 420
ccgcgccagc ccgggaggtg gccctggaca gccggacctc gcccggcccc ggctgggacc 480
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gtgaacattt ccaaggccat tctgctcggg gtgatcttgg ggggcctcat tcttttcggg 600
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acgcactact acatcgtcaa cctggcggtg gccgacctcc tgctcacctc cacggtgctg 720
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cccctgttcg gctggaggca gccggccccc gaggacgaga ccatctgcca gatcaacgag 1020
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ctcctcaagt ctccccggga gaagaaagcg gccaaaacgc tgggcatcgt ggtcggctgc 1320
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ttcaagccct ctgaaacagt ttttaaaata gtattttggc tcggatatct aaacagctgc 1440
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ttgagaatcc agtgtctccg cagaaagcag tcttccaaac atgccctggg ctacaccctg 1560
cacccgccca gccaggccgt ggaagggcaa cacaaggaca tggtgcgcat ccccgtggga 1620
tcaagagaga ccttctacag gatctccaag acggatggcg tttgtgaatg gaaattttc 1680
tcttccatgc cccgtggatc tgccaggatt acagtgtcca aagaccaatc ctcctgtacc 1740
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tactgcccaa ggaaggggag catgaaaccc accactggtc ctgcgaccca ctgtctttgg 1860
aatccacccc aggagcccag gagccttgcc tgacacttgg atttacttct ttatcaagca 1920
tccatctgac taaggcacaa atccaacatg ttactgttac tgatacagga aaaacagtaa 1980
cttaaggaat gatcatgaat gcaaagggaa agaggaaaag agccttcagg gacaaatagc 2040
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attgagaatc atcagccacg tgtagggtgt gaggaattcc ataaggcacc ccagtttctt 2160
caataagtaa atggcatttt taaaagggga actttatgg gttaaaatat tcttaagaga 2220
tgtattcatc aagtatactg tacaagcctt gttcatttag attgaaacaa agtgtaaaaa 2280
gacatttttg aagtaattgg agaaaattaa gcataggctg tgtcctatta gatgttagat 2340
aattagatcg ttattttaaa ttttgttgga tgtgataatg gcattgtcct taactggtaa 2400
gtgcatatcg aagtatgttt gcaatttgct ttaaagtttt attgccaaaa gtggggaagc 2460
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<210> 6
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3201389CD1

3

<400> 6

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                20              25                      30
Val Ile Leu Gly Gly Leu Ile Leu Phe Gly Val Leu Gly Asn Ile
                35                  40                      45
Leu Val Ile Leu Ser Val Ala Cys His Arg His Leu His Ser Val
                50                  55                      60
Thr His Tyr Tyr Ile Val Asn Leu Ala Val Ala Asp Leu Leu Leu
                65                  70                      75
Thr Ser Thr Val Leu Pro Phe Ser Ala Ile Phe Glu Val Leu Gly
                80                  85                      90
Tyr Trp Ala Phe Gly Arg Val Phe Cys Asn Ile Trp Ala Ala Val
                95                  100                     105
Asp Val Leu Cys Cys Thr Ala Ser Ile Met Gly Leu Cys Ile Ile
                110                 115                     120
Ser Ile Asp Arg Tyr Ile Gly Val Ser Tyr Pro Leu Arg Tyr Pro
                125                 130                     135
Thr Ile Val Thr Gln Arg Arg Gly Leu Met Ala Leu Leu Cys Val
                140                 145                     150
Trp Ala Leu Ser Leu Val Ile Ser Ile Gly Pro Leu Phe Gly Trp
                155                 160                     165
Arg Gln Pro Ala Pro Glu Asp Glu Thr Ile Cys Gln Ile Asn Glu
                170                 175                     180
Glu Pro Gly Tyr Val Leu Phe Ser Ala Leu Gly Ser Phe Tyr Leu
                185                 190                     195
Pro Leu Ala Ile Ile Leu Val Met Tyr Cys Arg Val Tyr Val Val
                200                 205                     210
Ala Lys Arg Glu Ser Arg Gly Leu Lys Ser Gly Leu Lys Thr Asp
                215                 220                     225
Lys Ser Asp Ser Glu Gln Val Thr Leu Arg Ile His Arg Lys Asn
                230                 235                     240
Ala Pro Ala Gly Gly Ser Gly Met Ala Ser Ala Lys Thr Lys Thr
                245                 250                     255
His Phe Ser Val Arg Leu Leu Lys Phe Ser Arg Glu Lys Lys Ala
                260                 265                     270
Ala Lys Thr Leu Gly Ile Val Val Gly Cys Phe Val Leu Cys Trp
                275                 280                     285
Leu Pro Phe Phe Leu Val Met Pro Ile Gly Ser Phe Phe Pro Asp
                290                 295                     300
Phe Lys Pro Ser Glu Thr Val Phe Lys Ile Val Phe Trp Leu Gly
                305                 310                     315
Tyr Leu Asn Ser Cys Ile Asn Pro Ile Ile Tyr Pro Cys Ser Ser
                320                 325                     330
Gln Glu Phe Lys Lys Ala Phe Gln Asn Val Leu Arg Ile Gln Cys
                335                 340                     345
Leu Arg Arg Lys Gln Ser Ser Lys His Ala Leu Gly Tyr Thr Leu
                350                 355                     360
His Pro Pro Ser Gln Ala Val Glu Gly Gln His Lys Asp Met Val
                365                 370                     375
Arg Ile Pro Val Gly Ser Arg Glu Thr Phe Tyr Arg Ile Ser Lys
                380                 385                     390
Thr Asp Gly Val Cys Glu Trp Lys Phe Phe Ser Ser Met Pro Arg
                395                 400                     405
Gly Ser Ala Arg Ile Thr Val Ser Lys Asp Gln Ser Ser Cys Thr
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          Thr Ala Arg Gly His Thr Pro Met Thr
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<210> 7
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390CB1

<400> 7
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gtcaccagtg aaagctggcg ttcgttttc aaggaggctc tccaaggggt tggggacatg 180
ggcagagcct attgggacat aatgatatcc aatcaccaaa attcaaacag atatctctat 240
gctcggggaa actatgatgc tgcccaaaga ggacctgggg gtgtctgggc tgctaaactc 300
atcagccgtt ccagggtcta tcttcaggga ttaatagact actatttatt tggaaacagc 360
agcactgtat tggaggactc gaagtccaac gagaaagctg aggaatgggg ccggagtggc 420
aaagaccccg accgcttcag acctgacggc ctgcctaaga aatactgagc ttcctgctcc 480
tctgctctca gggaaactgg gctgtgagcc acacacttct cccccccagac agggacacag 540
ggtcactgag ctttgtgtcc ccaggaactg gtatagggca cctagaggtg ttcaataaat 600
gtttgtcaaa ttgaaaaaaa aaaa                                         624
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<210> 8
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390CD1

<400> 8
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                 20                  25                  30
Gly Val Gly Asp Met Gly Arg Ala Tyr Trp Asp Ile Met Ile Ser
                 35                  40                  45
Asn His Gln Asn Ser Asn Arg Tyr Leu Tyr Ala Arg Gly Asn Tyr
                 50                  55                  60
Asp Ala Ala Gln Arg Gly Pro Gly Gly Val Trp Ala Ala Lys Leu
             65                  70                  75
Ile Ser Arg Ser Arg Val Tyr Leu Gln Gly Leu Ile Asp Tyr Tyr
                 80                  85                  90
Leu Phe Gly Asn Ser Ser Thr Val Leu Glu Asp Ser Lys Ser Asn
                 95                 100                 105
Glu Lys Ala Glu Glu Trp Gly Arg Ser Gly Lys Asp Pro Asp Arg
                110                 115                 120
Phe Arg Pro Asp Gly Leu Pro Lys Lys Tyr
                125                 130
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<210> 9
<211> 852
<212> DNA

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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1102322.16

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aagcccttcg agatgccaaa ctagacaagt cacagattca tgatattgtc ctggttggtg 180
gttctactcg tatccccaag attcagaagc ttctccaaga cttcttcaat ggaaaagaac 240
tgaataagag catcaaccct gatgaagctg ttgcttatgg tgcagctgtc caggcagcca 300
tcttgtctgg agacaagtct gagaatgttc aagatttgct gctcttggat gtcactcctc 360
tttcccttgg tattgaaact gctggtggag tcatgactgt cctcatcaag cgtaatacca 420
ccattcctac caagcagaca cagaccttca ctacctattc tgacaaccag cctggtgtgc 480
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ttgaactcac aggcatgcca ggaggaatgc ctgggggatt tcctggtggt ggagctcctc 600
cctctggtgg tgcttcctca gggcccacca ttgaagaggt tgattaagcc aaccaagtgt 660
agatgtagca ttgttccaca catttaaaac atttgaagga cctaaattcg tagcaaattc 720
tgtggcagtt ttaaaaagtt aagctgctat agtaagttac tgggcattct caatacttga 780
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agtggaaaat gc 852

<210> 10
<211> 2260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1545176CB1

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ggcaccacct actcttgtgt gggtgttttc cagcacggaa aagtcgagat aattgccaat 180
gatcagggaa accgaaccac tccaagctat gtcgccttta cggacactga acggttgatc 240
ggtgatgccg caaagaatca agttgcaatg aacccccacca acacagtttt tgatgccaaa 300
cgtctgattg acgcagatt tgatgatgct gttgtccagt ctgatatgaa acattggccc 360
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attattaatg agccaactgc tgctgctatt gcttacggct agacaaaaa ggttggagca 660
gaaagaaacg tgctcatctt tgacctggga ggtggcactt ttgatgtgtc aatcctcact 720
attgaggatg gaatctttga ggtcaagtct acagctggag acacccactt gggtggagaa 780
gattttgaca accgaatggt caaccatttt attgctgagt ttaagcgcaa gcataagaag 840
gacatcagtg agaacaagag agctgtaaga cgcctccgta ctgcttgtga cgtgctaag 900
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gacttctata cctccattac ccgtgcccga tttgaagaac tgaatgctga cctgttccgt 1020
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gtcctcatca agcgtaatac caccattcct accaagcaga cacagacctt cactacctat 1380

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tctgacaacc agcctggtgt gcttattcag gtttatgaag gcgagcgtgc catgacaaag 1440
gataacaacc tgcttggcaa gtttgaactc acaggcatac ctcctgcacc ccgaggtgtt 1500
cctcagattg aagtcacttt tgacattgat gccaatggta tactcaatgt ctctgctgtg 1560
gacaagagta cgggaaaaga gaacaagatt actatcacta atgacaaggg ccgtttgagc 1620
aaggaagaca ttgaacgtat ggtccaggaa gctgagaagt acaaagctga agatgagaag 1680
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ctgtggcagt tttaaaaagt taagctgcta tagtaagtta ctgggcattc tcaatacttg 2160
aatatggaac atatgcacag gggaaggaaa taacattgca ctttataaac actgtattgt 2220
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<210> 11
<211> 646
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1545176CD1

<400> 11
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Ser Cys Val Gly Val Phe Gln His Gly Lys Val Glu Ile Ile Ala
                20                  25                  30
Asn Asp Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr
                35                  40                  45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
                50                  55                  60
Met Asn Pro Thr Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
                65                  70                  75
Arg Arg Phe Asp Asp Ala Val Val Gln Ser Asp Met Lys His Trp
                80                  85                  90
Pro Phe Met Val Val Asn Asp Ala Gly Arg Pro Lys Val Gln Val
                95                  100                 105
Glu Tyr Lys Gly Glu Thr Lys Ser Phe Tyr Pro Glu Glu Val Ser
                110                 115                 120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
                125                 130                 135
Gly Lys Thr Val Thr Asn Ala Val Val Thr Val Pro Ala Tyr Phe
                140                 145                 150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala
                155                 160                 165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
                170                 175                 180
Ile Ala Tyr Gly Leu Asp Lys Lys Val Gly Ala Glu Arg Asn Val
                185                 190                 195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
                200                 205                 210
Thr Ile Glu Asp Gly Ile Phe Glu Val Lys Ser Thr Ala Gly Asp
                215                 220                 225
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7

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Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Met Val Asn His
                230             235                 240
Phe Ile Ala Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Glu
                245             250                 255
Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg Ala
                260             265                 270
Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Ile Glu Ile Asp
                275             280                 285
Ser Leu Tyr Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala
                290             295                 300
Arg Phe Glu Glu Leu Asn Ala Asp Leu Phe Arg Gly Thr Leu Asp
                305             310                 315
Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Ser Gln
                320             325                 330
Ile His Asp Ile Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys
                335             340                 345
Ile Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Lys Glu Leu Asn
                350             355                 360
Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val
                365             370                 375
Gln Ala Ala Ile Leu Ser Gly Asp Lys Ser Glu Asn Val Gln Asp
                380             385                 390
Leu Leu Leu Leu Asp Val Thr Pro Leu Ser Leu Gly Ile Glu Thr
                395             400                 405
Ala Gly Gly Val Met Thr Val Leu Ile Lys Arg Asn Thr Thr Ile
                410             415                 420
Pro Thr Lys Gln Thr Gln Thr Phe Thr Thr Tyr Ser Asp Asn Gln
                425             430                 435
Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala Met Thr
                440             445                 450
Lys Asp Asn Asn Leu Leu Gly Lys Phe Glu Leu Thr Gly Ile Pro
                455             460                 465
Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile
                470             475                 480
Asp Ala Asn Gly Ile Leu Asn Val Ser Ala Val Asp Lys Ser Thr
                485             490                 495
Gly Lys Glu Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu
                500             505                 510
Ser Lys Glu Asp Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr
                515             520                 525
Lys Ala Glu Asp Glu Lys Gln Arg Asp Lys Val Ser Ser Lys Asn
                530             535                 540
Ser Leu Glu Ser Tyr Ala Phe Asn Met Lys Ala Thr Val Glu Asp
                545             550                 555
Glu Lys Leu Gln Gly Lys Ile Asn Asp Glu Asp Lys Gln Lys Ile
                560             565                 570
Leu Asp Lys Cys Asn Glu Ile Ile Asn Trp Leu Asp Lys Asn Gln
                575             580                 585
Thr Ala Glu Lys Glu Glu Phe Glu His Gln Gln Lys Glu Leu Glu
                590             595                 600
Lys Val Cys Asn Pro Ile Ile Thr Lys Leu Tyr Gln Ser Ala Gly
                605             610                 615
Gly Met Pro Gly Gly Met Pro Gly Gly Phe Pro Gly Gly Gly Ala
                620             625                 630
Pro Pro Ser Gly Gly Ala Ser Ser Gly Pro Thr Ile Glu Glu Val
                635             640                 645
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8

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Asp

<210> 12
<211> 1335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978222.4

<400> 12
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10

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            35              40              45
Leu Thr Asp Ile Asp Leu Gln Leu Gln Phe Ser Thr Ser Gln Pro
            50              55              60
Glu Ala Leu Leu Leu Leu Ala Ala Gly Pro Ala Asp His Leu Leu
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Leu Gln Leu Tyr Ser Gly Arg Leu Gln Val Arg Leu Val Leu Gly
            80              85              90
Gln Glu Glu Leu Arg Leu Gln Thr Pro Ala Glu Thr Leu Leu Ser
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12

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Thr Gly Thr Leu Gly Leu Pro Tyr Leu Arg Gly Thr Ser Arg Pro
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Leu Arg Gly Cys Leu His Ala Ala Thr Leu Asn Gly Arg Ser Leu
            170             175                     180
Leu Arg Pro Leu Thr Pro Asp Val His Glu Gly Cys Ala Glu Glu
            185             190                     195
Phe Ser Ala Ser Asp Asp Val Ala Leu Gly Phe Ser Gly Pro His
            200             205                     210
Ser Leu Ala Ala Phe Pro Ala Trp Gly Thr Gln Asp Glu Gly Thr
            215             220                     225
Leu Glu Phe Thr Leu Thr Thr Gln Ser Arg Gln Ala Pro Leu Ala
            230             235                     240
Phe Gln Ala Gly Gly Arg Arg Gly Asp Phe Ile Tyr Val Asp Ile
            245             250                     255
Phe Glu Gly His Leu Arg Ala Val Val Glu Lys Gly Gln Gly Thr
            260             265                     270
Val Leu Leu His Asn Ser Val Pro Val Ala Asp Gly Gln Pro His
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Glu Val Ser Val His Ile Asn Ala His Arg Leu Glu Ile Ser Val
            290             295                     300
Asp Gln Tyr Pro Thr His Thr Ser Asn Arg Gly Val Leu Ser Tyr
            305             310                     315
Leu Glu Pro Arg Gly Ser Leu Leu Leu Gly Gly Leu Asp Ala Glu
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Ala Ser Arg His Leu Gln Glu His Arg Leu Gly Leu Thr Pro Glu
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Leu Glu Leu Asp Ile Leu Gly Ala Gln Ala Arg Lys Met Phe Thr
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Leu Leu Asp Val Val Asn Arg Lys Ala Arg Phe Ile His Asp Gly
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Ser Glu Asp Thr Ser Asp Gln Leu Val Leu Glu Val Ser Val Thr
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            575                 580                 585
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Phe Ser Cys Arg Glu Leu Glu Ala Gly Ser Leu Val Tyr Val His
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Cys Gly Gly Pro Ala Gln Asp Leu Thr Phe Arg Val Ser Asp Gly
            635                 640                 645
Leu Gln Ala Ser Pro Pro Ala Thr Leu Lys Val Val Ala Ile Arg
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Pro Ala Ile Gln Ile His Arg Ser Thr Gly Leu Arg Leu Ala Gln
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Gly Ser Ala Met Pro Ile Leu Pro Ala Asn Leu Ser Val Glu Thr
            680                 685                 690
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            695                 700                 705
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Val Leu Thr Asn Val Leu Leu Val Val Pro Asp Gly Gly Glu Gly
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14

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Phe Ala Asp Ala Gln Leu Val Leu Thr Arg Lys Asp Leu Leu Phe
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Gly Ser Ile Val Ala Val Asp Glu Pro Thr Arg Pro Ile Tyr Arg
           1070                1075                1080
Phe Thr Gln Glu Asp Leu Arg Lys Arg Arg Val Leu Phe Val His
           1085                1090                1095
Ser Gly Ala Asp Arg Gly Trp Ile Gln Leu Gln Val Ser Asp Gly
           1100                1105                1110
Gln His Gln Ala Thr Ala Leu Leu Glu Val Gln Ala Ser Glu Pro
           1115                1120                1125
Tyr Leu Arg Val Ala Asn Gly Ser Ser Leu Val Val Pro Gln Gly
           1130                1135                1140
Gly Gln Gly Thr Ile Asp Thr Ala Val Leu His Leu Asp Thr Asn
           1145                1150                1155
Leu Asp Ile Arg Ser Gly Asp Glu Val His Tyr His Val Thr Ala
           1160                1165                1170
Gly Pro Arg Trp Gly Gln Leu Val Arg Ala Gly Gln Pro Ala Thr
           1175                1180                1185
Ala Phe Ser Gln Gln Asp Leu Leu Asp Gly Ala Val Leu Tyr Ser
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His Asn Gly Ser Leu Ser Pro Glu Asp Thr Met Ala Phe Ser Val
           1205                1210                1215
Glu Ala Gly Pro Val His Thr Asp Ala Thr Leu Gln Val Thr Ile
           1220                1225                1230
Ala Leu Glu Gly Pro Leu Ala Pro Leu Lys Leu Val Arg His Lys
           1235                1240                1245
Lys Ile Tyr Val Phe Gln Gly Glu Ala Ala Glu Ile Arg Arg Asp
           1250                1255                1260
Gln Leu Glu Ala Ala Gln Glu Ala Val Pro Pro Ala Asp Ile Val
           1265                1270                1275
Phe Ser Val Lys Ser Pro Pro Ser Ala Gly Tyr Leu Val Met Val
           1280                1285                1290
Ser Arg Gly Ala Leu Ala Asp Glu Pro Pro Ser Leu Asp Pro Val
           1295                1300                1305
Gln Ser Phe Ser Gln Glu Ala Val Asp Thr Gly Arg Val Leu Tyr
           1310                1315                1320
Leu His Ser Arg Pro Glu Ala Trp Ser Asp Ala Phe Ser Leu Asp
           1325                1330                1335
Val Ala Ser Gly Leu Gly Ala Pro Leu Glu Gly Val Leu Val Glu
           1340                1345                1350
Leu Glu Val Leu Pro Ala Ala Ile Pro Leu Glu Ala Gln Asn Phe
           1355                1360                1365
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15

Ser Val Pro Glu Gly Gly Ser Leu Thr Leu Ala Pro Pro Leu Leu
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Arg Val Ser Gly Pro Tyr Phe Pro Thr Leu Leu Gly Leu Ser Leu
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Gln Val Leu Glu Pro Pro Gln His Gly Pro Leu Gln Lys Glu Asp
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Gly Pro Gln Ala Arg Thr Leu Ser Ala Phe Ser Trp Arg Met Val
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Glu Glu Gln Leu Ile Arg Tyr Val His Asp Gly Ser Glu Thr Leu
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Thr Asp Ser Phe Val Leu Met Ala Asn Ala Ser Glu Met Asp Arg
                    1445   1450   1455
Gln Ser His Pro Val Ala Phe Thr Val Thr Val Leu Pro Val Asn
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Asp Gln Pro Pro Ile Leu Thr Thr Asn Thr Gly Leu Gln Met Trp
                    1475   1480   1485
Glu Gly Ala Thr Ala Pro Ile Pro Ala Glu Ala Leu Arg Ser Thr
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Asp Gly Asp Ser Gly Ser Glu Asp Leu Val Tyr Thr Ile Glu Gln
                    1505   1510   1515
Pro Ser Asn Gly Arg Val Val Leu Arg Gly Ala Pro Gly Thr Glu
                    1520   1525   1530
Val Arg Ser Phe Thr Gln Ala Gln Leu Asp Gly Gly Leu Val Leu
                    1535   1540   1545
Phe Ser His Arg Gly Thr Leu Asp Gly Gly Phe Arg Phe Arg Leu
                    1550   1555   1560
Ser Asp Gly Glu His Thr Ser Pro Gly His Phe Phe Arg Val Thr
                    1565   1570   1575
Ala Gln Lys Gln Val Leu Leu Ser Leu Lys Gly Ser Gln Thr Leu
                    1580   1585   1590
Thr Val Cys Pro Gly Ser Val Gln Pro Leu Ser Ser Gln Thr Leu
                    1595   1600   1605
Arg Ala Ser Ser Ser Ala Gly Thr Asp Pro Gln Leu Leu Leu Tyr
                    1610   1615   1620
Arg Val Val Arg Gly Pro Gln Leu Gly Arg Leu Phe His Ala Gln
                    1625   1630   1635
Gln Asp Ser Thr Gly Glu Ala Leu Val Asn Phe Thr Gln Ala Glu
                    1640   1645   1650
Val Tyr Ala Gly Asn Ile Leu Tyr Glu His Glu Met Pro Pro Glu
                    1655   1660   1665
Pro Phe Trp Glu Ala His Asp Thr Leu Glu Leu Gln Leu Ser Ser
                    1670   1675   1680
Pro Pro Ala Arg Asp Val Ala Ala Thr Leu Ala Val Ala Val Ser
                    1685   1690   1695
Phe Glu Ala Ala Cys Pro Gln Arg Pro Ser His Leu Trp Lys Asn
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Lys Gly Leu Trp Val Pro Glu Gly Gln Arg Ala Arg Ile Thr Val
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Ala Ala Leu Asp Ala Ser Asn Leu Leu Ala Ser Val Pro Ser Pro
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Gln Arg Ser Glu His Asp Val Leu Phe Gln Val Thr Gln Phe Pro
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Ser Arg Gly Gln Leu Leu Val Ser Glu Glu Pro Leu His Ala Gly
                    1760   1765   1770
Gln Pro His Phe Leu Gln Ser Gln Leu Ala Ala Gly Gln Leu Val
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16

Tyr Ala His Gly Gly Gly Gly Thr Gln Gln Asp Gly Phe His Phe
                1790   1795   1800
Arg Ala His Leu Gln Gly Pro Ala Gly Ala Ser Val Ala Gly Pro
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Gln Thr Ser Glu Ala Phe Ala Ile Thr Val Arg Asp Val Asn Glu
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Arg Pro Pro Gln Pro Gln Ala Ser Val Pro Leu Arg Leu Thr Arg
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Gly Ser Arg Ala Pro Ile Ser Arg Ala Gln Leu Ser Val Val Asp
                1850   1855   1860
Pro Asp Ser Ala Pro Gly Glu Ile Glu Tyr Glu Val Gln Arg Ala
                1865   1870   1875
Pro His Asn Gly Phe Leu Ser Leu Val Gly Gly Gly Leu Gly Pro
                1880   1885   1890
Val Thr Arg Phe Thr Gln Ala Asp Val Asp Ser Gly Arg Leu Ala
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Asp Ile Leu Pro Ser Ala Ile Glu Val Gln Leu Arg Ala Pro Leu
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Glu Val Pro Gln Ala Leu Gly Arg Ser Ser Leu Ser Gln Gln Gln
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                1970   1975   1980
Leu Ile Gln Gly Pro Gln Tyr Gly His Leu Leu Val Gly Gly Arg
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Pro Thr Ser Ala Phe Ser Gln Phe Gln Ile Asp Gln Gly Glu Val
                2000   2005   2010
Val Phe Ala Phe Thr Asn Phe Ser Ser Ser His Asp His Phe Arg
                2015   2020   2025
Val Leu Ala Leu Ala Arg Gly Val Asn Ala Ser Ala Val Val Asn
                2030   2035   2040
Val Thr Val Arg Ala Leu Leu His Val Trp Ala Gly Gly Pro Trp
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Pro Gln Gly Ala Thr Leu Arg Leu Asp Pro Thr Val Leu Asp Ala
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Gly Glu Leu Ala Asn Arg Thr Gly Ser Val Pro Arg Phe Arg Leu
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Leu Glu Gly Pro Arg His Gly Arg Val Val Arg Val Pro Arg Ala
                2090   2095   2100
Arg Thr Glu Pro Gly Gly Ser Gln Leu Val Glu Gln Phe Thr Gln
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Gln Asp Leu Glu Asp Gly Arg Leu Gly Leu Glu Val Gly Arg Pro
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Glu Gly Arg Ala Pro Gly Pro Ala Gly Asp Ser Leu Thr Leu Glu
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Leu Trp Ala Gln Gly Val Pro Pro Ala Val Ala Ser Leu Asp Phe
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Ala Thr Glu Pro Tyr Asn Ala Ala Arg Pro Tyr Ser Val Ala Leu
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Leu Ser Val Pro Glu Ala Ala Arg Thr Glu Ala Gly Lys Pro Glu
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Ser Ser Thr Pro Thr Gly Glu Pro Gly Pro Met Ala Ser Ser Pro
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17

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Glu Pro Ala Val Ala Lys Gly Gly Phe Leu Ser Phe Leu Glu Ala
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Asn Met Phe Ser Val Ile Ile Pro Met Cys Leu Val Leu Leu Leu
            2225                2230                2235
Leu Ala Leu Ile Leu Pro Leu Leu Phe Tyr Leu Arg Lys Arg Asn
            2240                2245                2250
Lys Thr Gly Lys His Asp Val Gln Val Leu Thr Ala Lys Pro Arg
            2255                2260                2265
Asn Gly Leu Ala Gly Asp Thr Glu Thr Phe Arg Lys Val Glu Pro
            2270                2275                2280
Gly Gln Ala Ile Pro Leu Thr Ala Val Pro Gly Gln Gly Pro Pro
            2285                2290                2295
Pro Gly Gly Gln Pro Asp Pro Glu Leu Leu Gln Phe Cys Arg Thr
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1857017CB1

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<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1857017CD1
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19

<400> 17

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Met Met Ser Met Asn Met Phe Thr Gly Asn Asn Lys Ile Cys Gly
                35                  40                  45
Trp Asn Tyr Glu Cys Pro Lys Phe Glu Glu Asp Val Leu Ser Ser
                50                  55                  60
Asp Ile Ile Ile Leu Thr Ile Thr Arg Cys Ile Ala Ile Leu Tyr
                65                  70                  75
Ile Tyr Phe Gln Phe Gln Asn Leu Arg Gln Leu Gly Ser Lys Tyr
                80                  85                  90
Ile Leu Gly Ile Ala Gly Leu Phe Thr Ile Phe Ser Ser Phe Val
                95                  100                 105
Phe Ser Thr Val Val Ile His Phe Leu Asp Lys Glu Leu Thr Gly
                110                 115                 120
Leu Asn Glu Ala Leu Pro Phe Phe Leu Leu Leu Ile Asp Leu Ser
                125                 130                 135
Arg Ala Ser Thr Leu Ala Lys Phe Ala Leu Ser Ser Asn Ser Gln
                140                 145                 150
Asp Glu Val Arg Glu Asn Ile Ala Arg Gly Met Ala Ile Leu Gly
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Pro Thr Phe Thr Leu Asp Ala Leu Val Glu Cys Leu Val Ile Gly
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Val Gly Thr Met Ser Gly Val Arg Gln Leu Glu Ile Met Cys Cys
                185                 190                 195
Phe Gly Cys Met Ser Val Leu Ala Asn Tyr Phe Val Phe Met Thr
                200                 205                 210
Phe Phe Pro Ala Cys Val Ser Leu Val Leu Glu Leu Ser Arg Glu
                215                 220                 225
Ser Arg Glu Gly Arg Pro Ile Trp Gln Leu Ser His Phe Ala Arg
                230                 235                 240
Val Leu Glu Glu Glu Glu Asn Lys Pro Asn Pro Val Thr Gln Arg
                245                 250                 255
Val Lys Met Ile Met Ser Leu Gly Leu Val Leu Val His Ala His
                260                 265                 270
Ser Arg Trp Ile Ala Asp Pro Ser Pro Gln Asn Ser Thr Ala Asp
                275                 280                 285
Thr Ser Lys Val Ser Leu Gly Leu Asp Glu Asn Val Ser Lys Arg
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Ile Glu Pro Ser Val Ser Leu Trp Gln Phe Tyr Leu Ser Lys Met
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Ile Ser Met Asp Ile Glu Gln Val Ile Thr Leu Ser Leu Ala Leu
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Leu Leu Ala Val Lys Tyr Ile Phe Phe Glu Gln Thr Glu Thr Glu
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Ser Thr Leu Ser Leu Lys Asn Pro Ile Thr Ser Pro Val Val Thr
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Gln Lys Lys Val Pro Asp Asn Cys Cys Arg Arg Glu Pro Met Leu
                365                 370                 375
Val Arg Asn Asn Gln Lys Cys Asp Ser Val Glu Glu Glu Thr Gly
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Ile Asn Arg Glu Arg Lys Val Glu Val Ile Lys Pro Leu Val Ala
                395                 400                 405
Glu Thr Asp Thr Pro Asn Arg Ala Thr Phe Val Val Gly Asn Ser
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Ile Leu Gly Asn Ala Glu Lys Gly Ala Lys Phe Leu Ser Asp Ala
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Glu Ile Ile Gln Leu Val Asn Ala Lys His Ile Pro Ala Tyr Lys
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Leu Glu Thr Leu Met Glu Thr His Glu Arg Gly Val Ser Ile Arg
                      485                         490                         495
Arg Gln Leu Leu Ser Lys Lys Leu Ser Glu Pro Ser Ser Leu Gln
                      500                         505                         510
Tyr Leu Pro Tyr Arg Asp Tyr Asn Tyr Ser Leu Val Met Gly Ala
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Cys Cys Glu Asn Val Ile Gly Tyr Met Pro Ile Pro Val Gly Val
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Ala Gly Pro Leu Cys Leu Asp Glu Lys Glu Phe Gln Val Pro Met
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Ala Thr Thr Glu Gly Cys Leu Val Ala Ser Thr Asn Arg Gly Cys
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Arg Ala Ile Gly Leu Gly Gly Gly Ala Ser Ser Arg Val Leu Ala
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Asp Gly Met Thr Arg Gly Pro Val Val Arg Leu Pro Arg Ala Cys
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Asp Ser Ala Glu Val Lys Ala Trp Leu Glu Thr Ser Glu Gly Phe
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Ala Val Ile Lys Glu Ala Phe Asp Ser Thr Ser Arg Phe Ala Arg
                      620                         625                         630
Leu Gln Lys Leu His Thr Ser Ile Ala Gly Arg Asn Leu Tyr Ile
                      635                         640                         645
Arg Phe Gln Ser Arg Ser Gly Asp Ala Met Gly Met Asn Met Ile
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Ser Lys Gly Thr Glu Lys Ala Leu Ser Lys Leu His Glu Tyr Phe
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Pro Glu Met Gln Ile Leu Ala Val Ser Gly Asn Tyr Cys Thr Asp
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Lys Lys Pro Ala Ala Ile Asn Trp Ile Glu Gly Arg Gly Lys Ser
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Val Val Cys Glu Ala Val Ile Pro Ala Lys Val Val Arg Glu Val
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Leu Lys Thr Thr Thr Glu Ala Met Ile Glu Val Asn Ile Asn Lys
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Asn Leu Val Gly Ser Ala Met Ala Gly Ser Ile Gly Gly Tyr Asn
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Ala His Ala Ala Asn Ile Val Thr Ala Ile Tyr Ile Ala Cys Gly
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Gln Asp Ala Ala Gln Asn Val Gly Ser Ser Asn Cys Ile Thr Leu
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Met Glu Ala Ser Gly Pro Thr Asn Glu Asp Leu Tyr Ile Ser Cys
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Thr Met Pro Ser Ile Glu Ile Gly Thr Val Gly Gly Gly Thr Asn
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Leu Leu Pro Gln Gln Ala Cys Leu Gln Met Leu Gly Val Gln Gly
                      815                         820                         825
Ala Cys Lys Asp Asn Pro Gly Glu Asn Ala Arg Gln Leu Ala Arg
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21

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Ile Val Cys Gly Thr Val Met Ala Gly Glu Leu Ser Leu Met Ala
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Ala Leu Ala Ala Gly His Leu Val Lys Ser His Met Ile His Asn
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Lys Thr Ala
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23

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26

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27

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Asn Leu Gly Lys Ser Glu Gly Phe Lys Ala Gly Asp Lys Thr Leu
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Thr Pro Arg Lys Leu Ser Thr Arg Asn Arg Thr Pro Ala Lys Val
              395                 400                 405
Glu Asp Ala Ala Asp Ser Ala Thr Lys Pro Glu Asn Leu Ser Ser
              410                 415                 420
Lys Thr Arg Gly Ser Ile Pro Thr Asp Val Glu Val Leu Pro Thr
              425                 430                 435
Glu Thr Glu Ile His Asn Glu Pro Phe Leu Thr Leu Trp Leu Thr
              440                 445                 450
Gln Val Glu Arg Lys Ile Gln Lys Asp Ser Leu Ser Lys Pro Glu
              455                 460                 465
Lys Leu Gly Thr Thr Ala Gly Gln Met Cys Ser Gly Leu Pro Gly
              470                 475                 480
Leu Ser Ser Val Asp Ile Asn Asn Phe Gly Asp Ser Ile Asn Glu
              485                 490                 495
Ser Glu Gly Ile Pro Leu Lys Arg Arg Arg Val Ser Phe Gly Gly
              500                 505                 510
His Leu Arg Pro Glu Leu Phe Asp Glu Asn Leu Pro Pro Asn Thr
              515                 520                 525
Pro Leu Lys Arg Gly Glu Ala Pro Thr Lys Arg Lys Ser Leu Val
              530                 535                 540
Met His Thr Pro Pro Val Leu Lys Lys Ile Ile Lys Glu Gln Pro
              545                 550                 555
Gln Pro Ser Gly Lys Gln Glu Ser Gly Ser Glu Ile His Val Glu
              560                 565                 570
Val Lys Ala Gln Ser Leu Val Ile Ser Pro Pro Ala Pro Ser Pro
              575                 580                 585
Arg Lys Thr Pro Val Ala Ser Asp Gln Arg Arg Arg Ser Cys Lys
              590                 595                 600
Thr Ala Pro Ala Ser Ser Ser Lys Ser Gln Thr Glu Val Pro Lys
              605                 610                 615
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Arg Gly Gly Glu Arg Val Ala Thr Cys Leu Gln Lys Arg Val Ser
            620                 625                 630
Ile Ser Arg Ser Gln His Asp Ile Leu Gln Met Ile Cys Ser Lys
            635                 640                 645
Arg Arg Ser Gly Ala Ser Glu Ala Asn Leu Ile Val Ala Lys Ser
            650                 655                 660
Trp Ala Asp Val Val Lys Leu Gly Ala Lys Gln Thr Gln Thr Lys
            665                 670                 675
Val Ile Lys His Gly Pro Gln Arg Ser Met Asn Lys Arg Gln Arg
            680                 685                 690
Arg Pro Ala Thr Pro Lys Lys Pro Val Gly Glu Val His Ser Gln
            695                 700                 705
Phe Ser Thr Gly His Ala Asn Ser Pro Cys Thr Ile Ile Ile Gly
            710                 715                 720
Lys Ala His Thr Glu Lys Val His Val Pro Ala Arg Pro Tyr Arg
            725                 730                 735
Val Leu Asn Asn Phe Ile Ser Asn Gln Lys Met Asp Phe Lys Glu
            740                 745                 750
Asp Leu Ser Gly Ile Ala Glu Met Phe Lys Thr Pro Val Lys Glu
            755                 760                 765
Gln Pro Gln Leu Thr Ser Thr Cys His Ile Ala Ile Ser Asn Ser
            770                 775                 780
Glu Asn Leu Leu Gly Lys Gln Phe Gln Gly Thr Asp Ser Gly Glu
            785                 790                 795
Glu Pro Leu Leu Pro Thr Ser Glu Ser Phe Gly Gly Asn Val Phe
            800                 805                 810
Phe Ser Ala Gln Asn Ala Ala Lys Gln Pro Ser Asp Lys Cys Ser
            815                 820                 825
Ala Ser Pro Pro Leu Arg Arg Gln Cys Ile Arg Glu Asn Gly Asn
            830                 835                 840
Val Ala Lys Thr Pro Arg Asn Thr Tyr Lys Met Thr Ser Leu Glu
            845                 850                 855
Thr Lys Thr Ser Asp Thr Glu Thr Glu Pro Ser Lys Thr Val Ser
            860                 865                 870
Thr Val Asn Arg Ser Gly Arg Ser Thr Glu Phe Arg Asn Ile Gln
            875                 880                 885
Lys Leu Pro Val Glu Ser Lys Ser Glu Glu Thr Asn Thr Glu Ile
            890                 895                 900
Val Glu Cys Ile Leu Lys Arg Gly Gln Lys Ala Thr Leu Leu Gln
            905                 910                 915
Gln Arg Arg Glu Gly Glu Met Lys Glu Ile Glu Arg Pro Phe Glu
            920                 925                 930
Thr Tyr Lys Glu Asn Ile Glu Leu Lys Glu Asn Asp Glu Lys Met
            935                 940                 945
Lys Ala Met Lys Arg Ser Arg Thr Trp Gly Gln Lys Cys Ala Pro
            950                 955                 960
Met Ser Asp Leu Thr Asp Leu Lys Ser Leu Pro Asp Thr Glu Leu
            965                 970                 975
Met Lys Asp Thr Ala Arg Gly Gln Asn Leu Leu Gln Thr Gln Asp
            980                 985                 990
His Ala Lys Ala Pro Lys Ser Glu Lys Gly Lys Ile Thr Lys Met
            995                 1000                1005
Pro Cys Gln Ser Leu Gln Pro Glu Pro Ile Asn Thr Pro Thr His
            1010                1015                1020
Thr Lys Gln Gln Leu Lys Ala Ser Leu Gly Lys Val Gly Val Lys
            1025                1030                1035
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Glu Glu Leu Leu Ala Val Gly Lys Phe Thr Arg Thr Ser Gly Glu
        1040   1045   1050
Thr Thr His Thr His Arg Glu Pro Ala Gly Asp Gly Lys Ser Ile
        1055   1060   1065
Arg Thr Phe Lys Glu Ser Pro Lys Gln Ile Leu Asp Pro Ala Ala
        1070   1075   1080
Arg Val Thr Gly Met Lys Lys Trp Pro Arg Thr Pro Lys Glu Glu
        1085   1090   1095
Ala Gln Ser Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln
        1100   1105   1110
Thr Pro Gly Pro Ser Glu Glu Ser Met Thr Asp Glu Lys Thr Thr
        1115   1120   1125
Lys Ile Ala Cys Lys Ser Pro Pro Glu Ser Val Asp Thr Pro
        1130   1135   1140
Thr Ser Thr Lys Gln Trp Pro Lys Arg Ser Leu Arg Lys Ala Asp
        1145   1150   1155
Val Glu Glu Glu Phe Leu Ala Leu Arg Lys Leu Thr Pro Ser Ala
        1160   1165   1170
Gly Lys Ala Met Leu Thr Pro Lys Pro Ala Gly Gly Asp Glu Lys
        1175   1180   1185
Asp Ile Lys Ala Phe Met Gly Thr Pro Val Gln Lys Leu Asp Leu
        1190   1195   1200
Ala Gly Thr Leu Pro Gly Ser Lys Arg Gln Leu Gln Thr Pro Lys
        1205   1210   1215
Glu Lys Ala Gln Ala Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu
        1220   1225   1230
Phe Gln Thr Pro Gly His Thr Glu Glu Leu Val Ala Ala Gly Lys
        1235   1240   1245
Thr Thr Lys Ile Pro Cys Asp Ser Pro Gln Ser Asp Pro Val Asp
        1250   1255   1260
Thr Pro Thr Ser Thr Lys Gln Arg Pro Lys Arg Ser Ile Arg Lys
        1265   1270   1275
Ala Asp Val Glu Gly Glu Leu Leu Ala Cys Arg Asn Leu Met Pro
        1280   1285   1290
Ser Ala Gly Lys Ala Met His Thr Pro Lys Pro Ser Val Gly Glu
        1295   1300   1305
Glu Lys Asp Ile Ile Ile Phe Val Gly Thr Pro Val Gln Lys Leu
        1310   1315   1320
Asp Leu Thr Glu Asn Leu Thr Gly Ser Lys Arg Arg Pro Gln Thr
        1325   1330   1335
Pro Lys Glu Glu Ala Gln Ala Leu Glu Asp Leu Thr Gly Phe Lys
        1340   1345   1350
Glu Leu Phe Gln Thr Pro Gly His Thr Glu Glu Ala Val Ala Ala
        1355   1360   1365
Gly Lys Thr Thr Lys Met Pro Cys Glu Ser Ser Pro Pro Glu Ser
        1370   1375   1380
Ala Asp Thr Pro Thr Ser Thr Arg Arg Gln Pro Lys Thr Pro Leu
        1385   1390   1395
Glu Lys Arg Asp Val Gln Lys Glu Leu Ser Ala Leu Lys Lys Leu
        1400   1405   1410
Thr Gln Thr Ser Gly Glu Thr Thr His Thr Asp Lys Val Pro Gly
        1415   1420   1425
Gly Glu Asp Lys Ser Ile Asn Ala Phe Arg Glu Thr Ala Lys Gln
        1430   1435   1440
Lys Leu Asp Pro Ala Ala Ser Val Thr Gly Ser Lys Arg His Pro
        1445   1450   1455

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Lys Thr Lys Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Trp
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Lys Glu Leu Phe Gln Thr Pro Val Cys Thr Asp Lys Pro Thr Thr
         1475                1480                1485
His Glu Lys Thr Thr Lys Ile Ala Cys Arg Ser Gln Pro Asp Pro
         1490                1495                1500
Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Ser Lys Arg Ser Leu
         1505                1510                1515
Arg Lys Val Asp Val Glu Glu Glu Phe Phe Ala Leu Arg Lys Arg
         1520                1525                1530
Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro Lys Pro Ala Val
         1535                1540                1545
Ser Gly Glu Lys Asn Ile Tyr Ala Phe Met Gly Thr Pro Val Gln
         1550                1555                1560
Lys Leu Asp Leu Thr Glu Asn Leu Thr Gly Ser Lys Arg Arg Leu
         1565                1570                1575
Gln Thr Pro Lys Glu Lys Ala Gln Ala Leu Glu Asp Leu Ala Gly
         1580                1585                1590
Phe Lys Glu Leu Phe Gln Thr Arg Gly His Thr Glu Glu Ser Met
         1595                1600                1605
Thr Asn Asp Lys Thr Ala Lys Val Ala Cys Lys Ser Ser Gln Pro
         1610                1615                1620
Asp Leu Asp Lys Asn Pro Ala Ser Ser Lys Arg Arg Leu Lys Thr
         1625                1630                1635
Ser Leu Gly Lys Val Gly Val Lys Glu Glu Leu Leu Ala Val Gly
         1640                1645                1650
Lys Leu Thr Gln Thr Ser Gly Glu Thr Thr His Thr His Thr Glu
         1655                1660                1665
Pro Thr Gly Asp Gly Lys Ser Met Lys Ala Phe Met Glu Ser Pro
         1670                1675                1680
Lys Gln Ile Leu Asp Ser Ala Ala Ser Leu Thr Gly Ser Lys Arg
         1685                1690                1695
Gln Leu Arg Thr Pro Lys Gly Lys Ser Glu Val Pro Glu Asp Leu
         1700                1705                1710
Ala Gly Phe Ile Glu Leu Phe Gln Thr Pro Ser His Thr Lys Glu
         1715                1720                1725
Ser Met Thr Asn Glu Lys Thr Thr Lys Val Ser Tyr Arg Ala Ser
         1730                1735                1740
Gln Pro Asp Leu Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Pro
         1745                1750                1755
Lys Arg Ser Leu Arg Lys Ala Asp Thr Glu Glu Glu Phe Leu Ala
         1760                1765                1770
Phe Arg Lys Gln Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro
         1775                1780                1785
Lys Pro Ala Val Gly Glu Glu Lys Asp Ile Asn Thr Phe Leu Gly
         1790                1795                1800
Thr Pro Val Gln Lys Leu Asp Gln Pro Gly Asn Leu Pro Gly Ser
         1805                1810                1815
Asn Arg Arg Leu Gln Thr Arg Lys Glu Lys Ala Gln Ala Leu Glu
         1820                1825                1830
Glu Leu Thr Gly Phe Arg Glu Leu Phe Gln Thr Pro Cys Thr Asp
         1835                1840                1845
Asn Pro Thr Thr Asp Glu Lys Thr Thr Lys Lys Ile Leu Cys Lys
         1850                1855                1860
Ser Pro Gln Ser Asp Pro Ala Asp Thr Pro Thr Asn Thr Lys Gln
         1865                1870                1875
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Arg Pro Lys Arg Ser Leu Lys Lys Ala Asp Val Glu Glu Glu Phe
         1880   1885   1890

Leu Ala Phe Arg Lys Leu Thr Pro Ser Ala Gly Lys Ala Met His
         1895   1900   1905

Thr Pro Lys Ala Ala Val Gly Glu Glu Lys Asp Ile Asn Thr Phe
         1910   1915   1920

Val Gly Thr Pro Val Glu Lys Leu Asp Leu Leu Gly Asn Leu Pro
         1925   1930   1935

Gly Ser Lys Arg Arg Pro Gln Thr Pro Lys Glu Lys Ala Lys Ala
         1940   1945   1950

Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr Pro Gly
         1955   1960   1965

His Thr Glu Glu Ser Met Thr Asp Asp Lys Ile Thr Glu Val Ser
         1970   1975   1980

Cys Lys Ser Pro Gln Pro Asp Pro Val Lys Thr Pro Thr Ser Ser
         1985   1990   1995

Lys Gln Arg Leu Lys Ile Ser Leu Gly Lys Val Gly Val Lys Glu
         2000   2005   2010

Glu Val Leu Pro Val Gly Lys Leu Thr Gln Thr Ser Gly Lys Thr
         2015   2020   2025

Thr Gln Thr His Arg Glu Thr Ala Gly Asp Gly Lys Ser Ile Lys
         2030   2035   2040

Ala Phe Lys Glu Ser Ala Lys Gln Met Leu Asp Pro Ala Asn Tyr
         2045   2050   2055

Gly Thr Gly Met Glu Arg Trp Pro Arg Thr Pro Lys Glu Glu Ala
         2060   2065   2070

Gln Ser Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr
         2075   2080   2085

Pro Asp His Thr Glu Glu Ser Thr Thr Asp Asp Lys Thr Thr Lys
         2090   2095   2100

Ile Ala Cys Lys Ser Pro Pro Pro Glu Ser Met Asp Thr Pro Thr
         2105   2110   2115

Ser Thr Arg Arg Arg Pro Lys Thr Pro Leu Gly Lys Arg Asp Ile
         2120   2125   2130

Val Glu Glu Leu Ser Ala Leu Lys Gln Leu Thr Gln Thr Thr His
         2135   2140   2145

Thr Asp Lys Val Pro Gly Asp Glu Asp Lys Gly Ile Asn Val Phe
         2150   2155   2160

Arg Glu Thr Ala Lys Gln Lys Leu Asp Pro Ala Ala Ser Val Thr
         2165   2170   2175

Gly Ser Lys Arg Gln Pro Arg Thr Pro Lys Gly Lys Ala Gln Pro
         2180   2185   2190

Leu Glu Asp Leu Ala Gly Leu Lys Glu Leu Phe Gln Thr Pro Ile
         2195   2200   2205

Cys Thr Asp Lys Pro Thr Thr His Glu Lys Thr Thr Lys Ile Ala
         2210   2215   2220

Cys Arg Ser Pro Gln Pro Asp Pro Val Gly Thr Pro Thr Ile Phe
         2225   2230   2235

Lys Pro Gln Ser Lys Arg Ser Leu Arg Lys Ala Asp Val Glu Glu
         2240   2245   2250

Glu Ser Leu Ala Leu Arg Lys Arg Thr Pro Ser Val Gly Lys Ala
         2255   2260   2265

Met Asp Thr Pro Lys Pro Ala Gly Gly Asp Glu Lys Asp Met Lys
         2270   2275   2280

Ala Phe Met Gly Thr Pro Val Gln Lys Leu Asp Leu Pro Gly Asn
         2285   2290   2295

Leu Pro Gly Ser Lys Arg Trp Pro Gln Thr Pro Lys Glu Lys Ala
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Gln Ala Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr
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Pro Gly Thr Asp Lys Pro Thr Thr Asp Glu Lys Thr Thr Lys Ile
          2330   2335   2340
Ala Cys Lys Ser Pro Gln Pro Asp Pro Val Asp Thr Pro Ala Ser
          2345   2350   2355
Thr Lys Gln Arg Pro Lys Arg Asn Leu Arg Lys Ala Asp Val Glu
          2360   2365   2370
Glu Glu Phe Leu Ala Leu Arg Lys Arg Thr Pro Ser Ala Gly Lys
          2375   2380   2385
Ala Met Asp Thr Pro Lys Pro Ala Val Ser Asp Glu Lys Asn Ile
          2390   2395   2400
Asn Thr Phe Val Glu Thr Pro Val Gln Lys Leu Asp Leu Leu Gly
          2405   2410   2415
Asn Leu Pro Gly Ser Lys Arg Gln Pro Gln Thr Pro Lys Glu Lys
          2420   2425   2430
Ala Glu Ala Leu Glu Asp Leu Val Gly Phe Lys Glu Leu Phe Gln
          2435   2440   2445
Thr Pro Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Ile Thr
          2450   2455   2460
Glu Val Ser Cys Lys Ser Pro Gln Pro Glu Ser Phe Lys Thr Ser
          2465   2470   2475
Arg Ser Ser Lys Gln Arg Leu Lys Ile Pro Leu Val Lys Val Asp
          2480   2485   2490
Met Lys Glu Glu Pro Leu Ala Val Ser Lys Leu Thr Arg Thr Ser
          2495   2500   2505
Gly Glu Thr Thr Gln Thr His Thr Glu Pro Thr Gly Asp Ser Lys
          2510   2515   2520
Ser Ile Lys Ala Phe Lys Glu Ser Pro Lys Gln Ile Leu Asp Pro
          2525   2530   2535
Ala Ala Ser Val Thr Gly Ser Arg Arg Gln Leu Arg Thr Arg Lys
          2540   2545   2550
Glu Lys Ala Arg Ala Leu Glu Asp Leu Val Asp Phe Lys Glu Leu
          2555   2560   2565
Phe Ser Ala Pro Gly His Thr Glu Glu Ser Met Thr Ile Asp Lys
          2570   2575   2580
Asn Thr Lys Ile Pro Cys Lys Ser Pro Pro Pro Glu Leu Thr Asp
          2585   2590   2595
Thr Ala Thr Ser Thr Lys Arg Cys Pro Lys Thr Arg Leu Arg Lys
          2600   2605   2610
Glu Val Lys Glu Glu Leu Ser Ala Val Glu Arg Leu Thr Gln Thr
          2615   2620   2625
Ser Gly Gln Ser Thr His Thr His Lys Glu Pro Ala Ser Gly Asp
          2630   2635   2640
Glu Gly Ile Lys Val Leu Lys Gln Arg Ala Lys Lys Lys Pro Asn
          2645   2650   2655
Pro Val Glu Glu Glu Pro Ser Arg Arg Arg Pro Arg Ala Pro Lys
          2660   2665   2670
Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Phe Thr Glu Leu
          2675   2680   2685
Ser Glu Thr Ser Gly His Thr Gln Glu Ser Leu Thr Ala Gly Lys
          2690   2695   2700
Ala Thr Lys Ile Pro Cys Glu Ser Pro Pro Leu Glu Val Val Asp
          2705   2710   2715

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Thr Thr Ala Ser Thr Lys Arg His Leu Arg Thr Arg Val Gln Lys
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Val Gln Val Lys Glu Glu Pro Ser Ala Val Lys Phe Thr Gln Thr
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Ser Gly Glu Thr Thr Asp Ala Asp Lys Glu Pro Ala Gly Glu Asp
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Lys Gly Ile Lys Ala Leu Lys Glu Ser Ala Lys Gln Thr Pro Ala
          2765              2770              2775
Pro Ala Ala Ser Val Thr Gly Ser Arg Arg Arg Pro Arg Ala Pro
          2780              2785              2790
Arg Glu Ser Ala Gln Ala Ile Glu Asp Leu Ala Gly Phe Lys Asp
          2795              2800              2805
Pro Ala Ala Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Thr
          2810              2815              2820
Thr Lys Ile Pro Cys Lys Ser Ser Pro Glu Leu Glu Asp Thr Ala
          2825              2830              2835
Thr Ser Ser Lys Arg Arg Pro Arg Thr Arg Ala Gln Lys Val Glu
          2840              2845              2850
Val Lys Glu Glu Leu Leu Ala Val Gly Lys Leu Thr Gln Thr Ser
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Gly Glu Thr Thr His Thr Asp Lys Glu Pro Val Gly Glu Gly Lys
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Gly Thr Lys Ala Phe Lys Gln Pro Ala Lys Arg Lys Leu Asp Ala
          2885              2890              2895
Glu Asp Val Ile Gly Ser Arg Arg Gln Pro Arg Ala Pro Lys Glu
          2900              2905              2910
Lys Ala Gln Pro Leu Glu Asp Leu Ala Ser Phe Gln Glu Leu Ser
          2915              2920              2925
Gln Thr Pro Gly His Thr Glu Glu Leu Ala Asn Gly Ala Ala Asp
          2930              2935              2940
Ser Phe Thr Ser Ala Pro Lys Gln Thr Pro Asp Ser Gly Lys Pro
          2945              2950              2955
Leu Lys Ile Ser Arg Arg Val Leu Arg Ala Pro Lys Val Glu Pro
          2960              2965              2970
Val Gly Asp Val Val Ser Thr Arg Asp Pro Val Lys Ser Gln Ser
          2975              2980              2985
Lys Ser Asn Thr Ser Leu Pro Pro Leu Pro Phe Lys Arg Gly Gly
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Gly Lys Asp Gly Ser Val Thr Gly Thr Lys Arg Leu Arg Cys Met
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Pro Ala Pro Glu Glu Ile Val Glu Glu Leu Pro Ala Ser Lys Lys
          3020              3025              3030
Gln Arg Val Ala Pro Arg Ala Arg Gly Lys Ser Ser Glu Pro Val
          3035              3040              3045
Val Ile Met Lys Arg Ser Leu Arg Thr Ser Ala Lys Arg Ile Glu
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Pro Ala Glu Glu Leu Asn Ser Asn Asp Met Lys Thr Asn Lys Glu
          3065              3070              3075
Glu His Lys Leu Gln Asp Ser Val Pro Glu Asn Lys Gly Ile Ser
          3080              3085              3090
Leu Arg Ser Arg Arg Gln Asn Lys Thr Glu Ala Glu Gln Gln Ile
          3095              3100              3105
Thr Glu Val Phe Val Leu Ala Glu Arg Ile Glu Ile Asn Arg Asn
          3110              3115              3120
Glu Lys Lys Pro Met Lys Thr Ser Pro Glu Met Asp Ile Gln Asn
          3125              3130              3135
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Pro Asp Asp Gly Ala Arg Lys Pro Ile Pro Arg Asp Lys Val Thr
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Glu Asn Lys Arg Cys Leu Arg Ser Ala Arg Gln Asn Glu Ser Ser
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Gln Pro Lys Val Ala Glu Glu Ser Gly Gly Gln Lys Ser Ala Lys
        3170                3175                3180
Val Leu Met Gln Asn Gln Lys Gly Lys Gly Glu Ala Gly Asn Ser
        3185                3190                3195
Asp Ser Met Cys Leu Arg Ser Arg Lys Thr Lys Ser Gln Pro Ala
        3200                3205                3210
Ala Ser Thr Leu Glu Ser Lys Ser Val Gln Arg Val Thr Arg Ser
        3215                3220                3225
Val Lys Arg Cys Ala Glu Asn Pro Lys Lys Ala Glu Asp Asn Val
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Cys Val Lys Lys Ile Arg Thr Arg Ser His Arg Asp Ser Glu Asp
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cttccaaagc atcccactca agggagactt gaaacttcca gtgtgagttg accccatcat 3660
ttaaaaataa agtccccggg ttccttaatg cctccttcac tgggccttcc tagcaggata 3720
gaaagtcctt gcccagagca ggacctggcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3840
nnnnnnnnnn nnnnncatgc ccggccatgg acctggctgt ctttatcatc cccacaaaca 3960
ttttgaaact ggaatatttg tcttcagaaa atggaaacaa gactataaat gataagccct 4020
gtccctagca ccacctctcc tgtgtgtgga atagaggccc ctcgtgctac caacacttac 4080
cctgtgttta aaaagatctt gtaccaagcc aacggcgttc ctggctctcc tgcccacagg 4140
atgaacattt tcggcttcct taggagtttt gccctaccgt attccaaagc gtgtgctggt 4200
ttctcatatt gtctgtaggc tcactcagcc cgcagtttat gtgtgtgctt ttttctatga 4260
aaaatgatgt attttgctac ttcctgtgta caaagtttta ttgtaaatgt tttttgtgct 4320
ttgcatgaac aggggccacg ttgttgcaat tgtttcagta gaactggttt gatttctaaa 4380
atgttcctgt aacatatctt ttatgaacaa atctgaacaa tttgtgaaat aaaacattga 4440
aaaccatc                                                         4448
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<210> 23
<211> 110
<212> DNA

36

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 238349.4c

<400> 23
cggcacgagg taaatgtttt ttgtgctttg catgaacagg ggccacgttg ttgcaattgt 60
ttcagtagaa ctggtttgat ttctaaaatg ttcctgtaac atatctttta   110

<210> 24
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 402917.3c

<400> 24
gaggagacag tgtccaggat ccaggggcag ggctcctgtg tctccctcac tgtcgtcgac 60
cctgaggcgg accgcttctt cagcatggtt cgcctgtccc cactcctctt cttggagaac 120
acagaggctc ccgcctcccc ccagggcagc agctcagcct cactggttga gacagaggac 180
ccttcacttg aagacacaag cgtgccttct gtccctcttg gctcccgaca gtgcttcctg 240
taccctgggc ctggtggcag ctatggcttc cgactcagtt gtgtggccag tgggcctcgt 300
ctcttcatct cccaggtgac tccaggaggc tcagctgccc gggctgggct gcaagtggga 360
gacgtgattc tggaagtgaa cgggtatcct gttgggggac agaatgacct ggagaggctt 420
cagcagctgc ctgaggctga gccacccctc tgcctgaagc tggcagccag gtctctgcgg 480
ggcttggaag cctggattcc ccctggggct gcagaggact gggctctggc ctcggatcta 540
ctgtagagca cccctgcttg gtacagacat actcaggggc taccgtgtct tcactctcca 600
gcctgaggtg gtgaaggcag gatgctctct ctaagccaga ccagagggac tcagacacca 660
ccgatcacag gctggcccag gtgctccctc ccttcctgca ggcccacctg ccagcagagg 720
gtgtggttgg aggcctcaga caggtccctg aaggagtctg aggctccaga ggatgtcata 780
tgggagtttt agagagctgt gtcccaagga tgaaggtgtg gctgtgggtc tggctaggat 840
tgaagccatc tggacctttt ctagatatga ctccaggacc cttgagtgta atgcaaaaat 900
ttggagacca gctatgcctg ccctctgtgg gtgccttagc attgcgggag ggtggtgctt 960
ggtcaccgtt gcatttgtta tagaaatggc cattcgccat aaatctgact gcctgtgttt 1020
gtgttggtgg gggtaagggg cagtggtgtg aagggaccaa aagggcctca ggctcaaggg 1080
gtgggatgcg gctcctgcag gagagaggtt gagacctggt caaatttatt tcctatcaat 1140
cactgaatct cagggataat gggtcaaccc agaactgaga tgtctgtatg acagccactc 1200
ctaacaatat acaacaacaa atccatat   1228

<210> 25
<211> 1216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 406330.1

<400> 25
gttctttgta cctgtaggtc tatgatgtcc aaacttaaca gatcacatgc ccctcttaga 60
agaaatatga gcatgctccc tcatgcagat agtatacaca tcataaacaa agagtagaac 120
tttaaaagaa ggtaaataat catacacaga atcctaaca ttatattccc aaatctcaaa 180
agatctcctg tgcacctgac tttggagacg atgctttagg taaaaagctt aaacattgcc 240

37

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ttatattgga tcaggaaccc ttacagtaga gggtccagtc ttctagtggg tttaatgttt 300
agtcagtgta ctctgagtcc tcattgttca gaaaagcacc tcttgaagaa ctgacttcct 360
gaactcccag tcatgttggt accctggaca gtgcctaact ccttacagaa gggagtgaaa 420
acctctttcg gaaatgattg agagcagcct cttgaatgct taaatgatca aggaggggaga 480
aaggcaaacc aatttgttct gtgcaacaaa ctcaaaatgt ggaccagttc cctcagccct 540
cattaaacta attaaactga tgggtatcat gcttctactc catggtgaac tgaagcagag 600
tcaagctgat gaagttaagc acaaccatgt tcttgagcag ctgaattggc tgccaagagt 660
ccaagccatc tggcccaaca tacgcactgg gcattgggta agggactcca gaagcagcag 720
ctagaaagag aaaaagccct cttcaatccc cataatgctt cttcctctt aatgtctcaa 780
aataaaacca gaaagaggaa taaaatgatt aagtgcttga ggccaaatga gttcccttga 840
ttcaaataac cctgaatcag aggcagagac ctcctgatgt cttggtttcc atcaaagtcc 900
tccctgtctg tctgtctctc ttttgctctc tcattcccag gcactctctt ttggtttgtg 960
ggtccaggag atgaggctgg ataggagagg aaaaggcttg agtctggata atttgtataa 1020
gatgctgctg agcacatctc ttcatgcgca gtccccaggt atctgatgat gttctgaaat 1080
ggatagattg ttttagagtt attttgtgtc ctttaaaaaa atcccattta tgcaatttac 1140
ttggaatttg cttagccttt aataggcttg tgtaatttcc tgctcctcca gtacaataaa 1200
taaaagaaag atgctg                                                  1216
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<210> 26
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516070CB1

<400> 26
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ccctggctgc agacataaat aggccctgca agagctggct gcttagagac tgcgagaagg 60
aggtccccca cggcccttca ggatgaaagc tgcggtgctg accttggccg tgctcttcct 120
gacggggagc caggctcggc atttctggca gcaagatgaa ccccccagа gccctggga 180
tcgagtgaag gacctggcca ctgtgtacgt ggatgtgctc aaagacagcg gcagagacta 240
tgtgtcccag tttgaaggct ccgccttggg aaaacagcta aacctaaagc tccttgacaa 300
ctgggacagc gtgacctcca ccttcagcaa gctgcgcgaa cagctcggcc ctgtgaccca 360
ggagttctgg gataacctgg aaaaggagac agagggcctg aggcaggaga tgagcaagga 420
tctggaggag gtgaaggcca aggtgcagcc ctacctggac gacttccaga gaagtggca 480
ggaggagatg gagctctacc gccagaaggt ggagccgctg cgcgcagagc tccaagaggg 540
cgcgcgccag aagctgcacg agctgcaaga gaagctgagc ccactgggcg aggagatgcg 600
cgaccgcgcg cgcgcccatg tggcacgcgt gcgcacgcat ctggccccct acagcgacga 660
gctgcgccag cgcttggctg cgcgccttga ggctctcaag gagaacggcg gcgccagact 720
ggccgagtac cacgccaagg ccaccgagca tctgagcacg ctcagcgaga aggctaagcc 780
tgcgctcgag gacctccgcc aaggcctgct gcccgtgctg gagagcttca aggtcagctt 840
cctgagcgct ctcgaggagt acactaagaa gctcaacacc cagtgaggcg cccgccgccg 900
cccccttcc cggtgctcag aataaacgtt tcgca                             935
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<210> 27
<211> 267
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516070CD1

<400> 27
Met Lys Ala Ala Val Leu Thr Leu Ala Val Leu Phe Leu Thr Gly

38

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  1                    5                           10                          15
Ser Gln Ala Arg His Phe Trp Gln Gln Asp Glu Pro Pro Gln Ser
                   20                          25                          30
Pro Trp Asp Arg Val Lys Asp Leu Ala Thr Val Tyr Val Asp Val
                   35                          40                          45
Leu Lys Asp Ser Gly Arg Asp Tyr Val Ser Gln Phe Glu Gly Ser
                   50                          55                          60
Ala Leu Gly Lys Gln Leu Asn Leu Lys Leu Leu Asp Asn Trp Asp
                   65                          70                          75
Ser Val Thr Ser Thr Phe Ser Lys Leu Arg Glu Gln Leu Gly Pro
                   80                          85                          90
Val Thr Gln Glu Phe Trp Asp Asn Leu Glu Lys Glu Thr Glu Gly
                   95                         100                         105
Leu Arg Gln Glu Met Ser Lys Asp Leu Glu Glu Val Lys Ala Lys
                  110                         115                         120
Val Gln Pro Tyr Leu Asp Asp Phe Gln Lys Lys Trp Gln Glu Glu
                  125                         130                         135
Met Glu Leu Tyr Arg Gln Lys Val Glu Pro Leu Arg Ala Glu Leu
                  140                         145                         150
Gln Glu Gly Ala Arg Gln Lys Leu His Glu Leu Gln Glu Lys Leu
                  155                         160                         165
Ser Pro Leu Gly Glu Glu Met Arg Asp Arg Ala Arg Ala His Val
                  170                         175                         180
Ala Arg Val Arg Thr His Leu Ala Pro Tyr Ser Asp Glu Leu Arg
                  185                         190                         195
Gln Arg Leu Ala Ala Arg Leu Glu Ala Leu Lys Glu Asn Gly Gly
                  200                         205                         210
Ala Arg Leu Ala Glu Tyr His Ala Lys Ala Thr Glu His Leu Ser
                  215                         220                         225
Thr Leu Ser Glu Lys Ala Lys Pro Ala Leu Glu Asp Leu Arg Gln
                  230                         235                         240
Gly Leu Leu Pro Val Leu Glu Ser Phe Lys Val Ser Phe Leu Ser
                  245                         250                         255
Ala Leu Glu Glu Tyr Thr Lys Lys Leu Asn Thr Gln
                  260                         265
<210> 28
<211> 1656
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 167507CB1

<400> 28
cctagcagag ccatttaacc tttgggaaca aggcaactag cgtctggcag caggaatcca 60
accagtgccc tgagttctga ggcagagagg aggacagaag aaacaagagg ctggagattg 120
tcaaattcag tatcccagtt ggctcttgat tcttggtgaa accatccctc agctcctaga 180
gggagattgt tagatcatga aactaattac catcctttc tctctgctcca ggctgctact 240
aagtttaacc caggaatcac agtccgagga aattgactgc aatgacaagg atttatttaa 300
agctgtggat gctgctctga agaaatataa cagtcaaaac caaagtaaca accagtttgt 360
attgtaccgc ataactgaag ccactaagac ggttggctct gacacgtttt attccttcaa 420
gtacgaaatc aaggagggg attgtcctgt tcaaagtggc aaaacctggc aggactgtga 480
gtacaaggat gctgcaaaag cagccactgg agaatgcacg gcaaccgtgg ggaagaggag 540
cagtacgaaa ttctccgtgg ctacccagac ctgccagatt actccagccg agggccctgt 600
ggtgacagcc cagtacgact gcctcggctg tgtgcatcct atatcaacgc agagcccaga 660
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39

```
cctggagccc attctgagac acggcattca gtactttaac aacaacactc aacattcctc 720
cctcttcatg cttaatgaag taaaacgggc ccaaagacag gtggtggctg gattgaactt 780
tcgaattacc tactcaattg tgcaaacgaa ttgttccaaa gagaattttc tgttcttaac 840
tccagactgc aagtcccttt ggaatggtga taccggtgaa tgtacagata atgcatacat 900
cgatattcag ctacgaattg cttccttctc acagaactgt gacatttatc cagggaagga 960
ttttgtacaa ccacctacca agatttgcgt gggctgcccc agagatatac ccaccaacag 1020
cccagagctg gaggagacac tgactcacac catcacaaag cttaatgcag agaataacgc 1080
aactttctat ttcaagattg acaatgtgaa aaaagcaaga gtacaggtgg tggctggcaa 1140
gaaatatttt attgacttcg tggccaggga aaccacatgt tccaaggaaa gtaatgaaga 1200
gttgaccgaa agctgtgaga ccaaaaaact tggccaaagc ctagattgca acgctgaagt 1260
ttatgtggta ccctgggaga aaaaaattta ccctactgtc aactgtcaac cactgggaat 1320
gatctcactg atgaaaaggc ctccaggttt ttcacctttc cgatcatcac gaatagggga 1380
aataaaagaa gaaacaacta gtcacctaag gtcctgcgag tacaagggtc gaccccaaa 1440
ggcagggca gagccagcat ctgagaggga ggtctcttga ccaatgggca gaatcttcac 1500
tccagcaca tagccccaac cacctctgcc agcaaccttg agaggaagga caagaagaaa 1560
gatgggatag aatttaaata gagaagaatg ccattttatc actctgcctc tgggtgaaat 1620
aaagatcagt cttgatgttc taaaaaaaaa aaaaaa                          1656
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<210> 29
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 167507CD1

<400> 29

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Met Lys Leu Ile Thr Ile Leu Phe Leu Cys Ser Arg Leu Leu Leu
 1               5                  10                  15
Ser Leu Thr Gln Glu Ser Gln Ser Glu Glu Ile Asp Cys Asn Asp
                20                  25                  30
Lys Asp Leu Phe Lys Ala Val Asp Ala Ala Leu Lys Lys Tyr Asn
                35                  40                  45
Ser Gln Asn Gln Ser Asn Asn Gln Phe Val Leu Tyr Arg Ile Thr
                50                  55                  60
Glu Ala Thr Lys Thr Val Gly Ser Asp Thr Phe Tyr Ser Phe Lys
                65                  70                  75
Tyr Glu Ile Lys Glu Gly Asp Cys Pro Val Gln Ser Gly Lys Thr
                80                  85                  90
Trp Gln Asp Cys Glu Tyr Lys Asp Ala Ala Lys Ala Ala Thr Gly
                95                  100                 105
Glu Cys Thr Ala Thr Val Gly Lys Arg Ser Ser Thr Lys Phe Ser
                110                 115                 120
Val Ala Thr Gln Thr Cys Gln Ile Thr Pro Ala Glu Gly Pro Val
                125                 130                 135
Val Thr Ala Gln Tyr Asp Cys Leu Gly Cys Val His Pro Ile Ser
                140                 145                 150
Thr Gln Ser Pro Asp Leu Glu Pro Ile Leu Arg His Gly Ile Gln
                155                 160                 165
Tyr Phe Asn Asn Asn Thr Gln His Ser Ser Leu Phe Met Leu Asn
                170                 175                 180
Glu Val Lys Arg Ala Gln Arg Gln Val Val Ala Gly Leu Asn Phe
                185                 190                 195
Arg Ile Thr Tyr Ser Ile Val Gln Thr Asn Cys Ser Lys Glu Asn
                200                 205                 210
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40

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Phe Leu Phe Leu Thr Pro Asp Cys Lys Ser Leu Trp Asn Gly Asp
            215                 220                 225
Thr Gly Glu Cys Thr Asp Asn Ala Tyr Ile Asp Ile Gln Leu Arg
            230                 235                 240
Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys Asp
            245                 250                 255
Phe Val Gln Pro Pro Thr Lys Ile Cys Val Gly Cys Pro Arg Asp
            260                 265                 270
Ile Pro Thr Asn Ser Pro Glu Leu Glu Glu Thr Leu Thr His Thr
            275                 280                 285
Ile Thr Lys Leu Asn Ala Glu Asn Asn Ala Thr Phe Tyr Phe Lys
            290                 295                 300
Ile Asp Asn Val Lys Lys Ala Arg Val Gln Val Val Ala Gly Lys
            305                 310                 315
Lys Tyr Phe Ile Asp Phe Val Ala Arg Glu Thr Thr Cys Ser Lys
            320                 325                 330
Glu Ser Asn Glu Glu Leu Thr Glu Ser Cys Glu Thr Lys Lys Leu
            335                 340                 345
Gly Gln Ser Leu Asp Cys Asn Ala Glu Val Tyr Val Val Pro Trp
            350                 355                 360
Glu Lys Lys Ile Tyr Pro Thr Val Asn Cys Gln Pro Leu Gly Met
            365                 370                 375
Ile Ser Leu Met Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg Ser
            380                 385                 390
Ser Arg Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg
            395                 400                 405
Ser Cys Glu Tyr Lys Gly Arg Pro Pro Lys Ala Gly Ala Glu Pro
            410                 415                 420
Ala Ser Glu Arg Glu Val Ser
            425
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<210> 30
<211> 617
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3860413CB1

<400> 30
gcccagccca ggaacgcggg cggtgcggac tcagcgggcc gggtgcaggc gcggactggg 60
cctctgcgcc cggcccgacc tccgtctata aatagagcag ccagttgcag ggctccattc 120
tgctttccaa ctgcctgact gcttgttcgt ctcactggtg tgagctccag catccccttt 180
gctataaaca ctgcttgccg cgctgcactc caccacgcct cctccaagtc ccagcgaacc 240
cgcgtgcaac ctgtcccgac tctagccgcc tcttcagctc gccatggatc ccaactgctc 300
ctgcgccgcc ggtgactcct gcacctgcgc cggctcctgc aaatgcaaag agtgcaaatg 360
cacctcctgc aagaaaagct gctgctcctg ctgccctgtg ggctgtgcca agtgtgccca 420
gggctgcatc tgcaaagggg cgtcggacaa gtgcagctgc tgcgcctgat gctgggacag 480
ccccgctccc agatgtaaag aacgcgactt ccacaaacct ggatttttta tgtacaaccc 540
tgaccgtgac cgtttgctat attccttttt ctatgaaata atgtgaatga taataaaaca 600
gctttgactt gaaaaaa                                              617
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<210> 31
<211> 61
<212> PRT
<213> Homo sapiens
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41

<220>
<221> misc_feature
<223> Incyte ID No: 3860413CD1

<400> 31
Met Asp Pro Asn Cys Ser Cys Ala Ala Gly Asp Ser Cys Thr Cys
1   5   10   15
Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
                20   25   30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
                35   40   45
Gln Gly Cys Ile Cys Lys Gly Ala Ser Asp Lys Cys Ser Cys Cys
                50   55   60
Ala

<210> 32
<211> 1629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3393861CB1

<400> 32
gatggtttct tggagcttcc acaaacttaa aaccatgaaa catctattat tgctactatt 60
gtgtgttttt ctagttaagt cccaaggtgt caacgacaat gaggaggggtt tcttcagtgc 120
ccgtggtcat cgaccccttg acaagaagag agaagaggct cccagcctga ggcctgcccc 180
accgcccatc agtggaggtg gctatcgggc tcgtccagcc aaggcagctg ccactcaaaa 240
gaaagtagaa agaaaagccc ctgatgctgg aggctgtctt cacgctgacc cagacctggg 300
ggtgttgtgt cctacaggat gtcagttgca agaggctttg ctacaacagg aaaggccaat 360
cagaaatagt gttgatgagt taaataacaa tgtggaagct gtttcccaga cctcctcttc 420
ttcctttcag tacatgtatt tgctgaaaga cctgtggcaa aagaggcaga agcaagtaaa 480
agataatgaa aatgtagtca atgagtactc ctcagaactg gaaaagcacc aattatatat 540
agatgagact gtgaatagca atatcccaac taaccttcgt gtgcttcgtt caatcctgga 600
aaacctgaga agcaaaatac aaaagttaga atctgatgtc tcagctcaaa tggaatattg 660
tcgcacccca tgcactgtca gttgcaatat tcctgtggtg tctggcaaag aatgtgagga 720
aattatcagg aaaggaggtg aaacatctga aatgtatctc attcaacctg acagttctgt 780
caaaccgtat agagtatact gtgacatgaa tacagaaaat ggaggatgga cagtgattca 840
gaaccgtcaa gacggtagtt ttgactttgg caggaaatgg gatccatata aacagggatt 900
tggaaatgtt gcaaccaaca cagatgggaa gaattactgt ggcctaccag gtgaatattg 960
gcttggaaat gataaaatta gccagcttac caggatggga cccacagaac ttttgataga 1020
aatggaggac tggaaaggag acaaagtaaa ggctcactat ggaggattca ctgtacagaa 1080
tgaagccaac aaataccaga tctcagtgaa caaatataga ggaacagccg gtaatgccct 1140
catggatgga gcatctcagc tgatgggaga aaacaggacc atgaccattc acaacggcat 1200
gttcttcagc acgtatgaca gagacaatga cggctggtta acatcagatc ccagaaaaca 1260
gtgttctaaa gaagacggtg gtggatggtg gtataataga tgtcatgcag ccaatccaaa 1320
cggcagatac tactggggtg gacagtacac ctgggacatg gcaaagcatg gcacagatga 1380
tggtgtagta tggatgaatt ggaaggggtc atggtactca atgaagaaga tgagtatgaa 1440
gatcaggccc ttcttcccac agcaatagtc cccaatacgt agattttgc tcttctgtat 1500
gtgacaacat ttttgtacat tatgttattg gaattttctt tcatacatta tattcctcta 1560
aaactctcaa gcagacgtga gtgtgacttt ttgaaaaaag tataggataa attacattaa 1620
aataagcaa   1629

<210> 33
<211> 488

PA-0035 US

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3393861CD1

<400> 33
Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys His Leu
1   5   10   15
Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly Val
                20   25   30
Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His Arg Pro
                35   40   45
Leu Asp Lys Lys Arg Glu Glu Ala Pro Ser Leu Arg Pro Ala Pro
                50   55   60
Pro Pro Ile Ser Gly Gly Gly Tyr Arg Ala Arg Pro Ala Lys Ala
                65   70   75
Ala Ala Thr Gln Lys Lys Val Glu Arg Lys Ala Pro Asp Ala Gly
                80   85   90
Gly Cys Leu His Ala Asp Pro Asp Leu Gly Val Leu Cys Pro Thr
                95   100   105
Gly Cys Gln Leu Gln Glu Ala Leu Leu Gln Gln Glu Arg Pro Ile
                110   115   120
Arg Asn Ser Val Asp Glu Leu Asn Asn Asn Val Glu Ala Val Ser
                125   130   135
Gln Thr Ser Ser Ser Ser Phe Gln Tyr Met Tyr Leu Leu Lys Asp
                140   145   150
Leu Trp Gln Lys Arg Gln Lys Gln Val Lys Asp Asn Glu Asn Val
                155   160   165
Val Asn Glu Tyr Ser Ser Glu Leu Glu Lys His Gln Leu Tyr Ile
                170   175   180
Asp Glu Thr Val Asn Ser Asn Ile Pro Thr Asn Leu Arg Val Leu
                185   190   195
Arg Ser Ile Leu Glu Asn Leu Arg Ser Lys Ile Gln Lys Leu Glu
                200   205   210
Ser Asp Val Ser Ala Gln Met Glu Tyr Cys Arg Thr Pro Cys Thr
                215   220   225
Val Ser Cys Asn Ile Pro Val Val Ser Gly Lys Glu Cys Glu Glu
                230   235   240
Ile Ile Arg Lys Gly Gly Glu Thr Ser Glu Met Tyr Leu Ile Gln
                245   250   255
Pro Asp Ser Ser Val Lys Pro Tyr Arg Val Tyr Cys Asp Met Asn
                260   265   270
Thr Glu Asn Gly Gly Trp Thr Val Ile Gln Asn Arg Gln Asp Gly
                275   280   285
Ser Phe Asp Phe Gly Arg Lys Trp Asp Pro Tyr Lys Gln Gly Phe
                290   295   300
Gly Asn Val Ala Thr Asn Thr Asp Gly Lys Asn Tyr Cys Gly Leu
                305   310   315
Pro Gly Glu Tyr Trp Leu Gly Asn Asp Lys Ile Ser Gln Leu Thr
                320   325   330
Arg Met Gly Pro Thr Glu Leu Leu Ile Glu Met Glu Asp Trp Lys
                335   340   345
Gly Asp Lys Val Lys Ala His Tyr Gly Gly Phe Thr Val Gln Asn
                350   355   360

43

```
Glu Ala Asn Lys Tyr Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr
            365             370                 375
Ala Gly Asn Ala Leu Met Asp Gly Ala Ser Gln Leu Met Gly Glu
            380             385                 390
Asn Arg Thr Met Thr Ile His Asn Gly Met Phe Phe Ser Thr Tyr
            395             400                 405
Asp Arg Asp Asn Asp Gly Trp Leu Thr Ser Asp Pro Arg Lys Gln
            410             415                 420
Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr Asn Arg Cys His
            425             430                 435
Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly Gln Tyr Thr
            440             445                 450
Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val Trp Met
            455             460                 465
Asn Trp Lys Gly Ser Trp Tyr Ser Met Lys Lys Met Ser Met Lys
            470             475                 480
Ile Arg Pro Phe Phe Pro Gln Gln
            485
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<210> 34
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517374CB1

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<210> 35
<211> 201
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2517374CD1

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44

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Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr Gly Lys Trp Phe Tyr
                35              40              45
Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln
                50              55              60
Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn Lys Thr Glu
                65              70              75
Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asp Gln Cys
                80              85              90
Ile Tyr Asn Thr Thr Tyr Leu Asn Val Gln Arg Glu Asn Gly Thr
                95              100             105
Ile Ser Arg Tyr Val Gly Gly Gln Glu His Phe Ala His Leu Leu
                110             115             120
Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu Ala Phe Asp Val Asn
                125             130             135
Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu
                140             145             150
Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys
                155             160             165
Leu Arg Ile Pro Lys Ser Asp Val Val Tyr Thr Asp Trp Lys Lys
                170             175             180
Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg Lys
                185             190             195
Gln Glu Glu Gly Glu Ser
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<210> 36
<211> 483
<212> DNA
<213> Homo sapiens

<220>
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gcagcaaacc cagtacttcc tctggttgtg tttgcaaaca aacaggatct tgaagcagcc 240
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atgttcttgt ttggaaccta cctgactaag aatggctcag agataccctc caccatgcaa 360
gatgccaaag acttgattgc acagctggct gcagatgtgc agtgaccagg actcagccca 420
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tcc                                                             483
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<210> 37
<211> 567
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 237416.12c

<220>

<221> unsure
<222> 33, 483, 500
<223> a, t, c, g, or other

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cctttcacgt cttactactc tccaaatcgg agtccatcac ttcacttcag ttattcatta 180
aggggttcct ctacagcttt cctaggaggt tgtatagtct tctgattgga agctgatata 240
aataacaaat aagaatataa atttaataaa tgaaataaac taaggcattt ggtaatgttt 300
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ttccagctct gacagtctat tcaaacatgc tgaatattct tgattatata cactgatttg 420
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<210> 38
<211> 1003
<212> DNA
<213> Homo sapiens

<220>
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tccctttcgt cactttgctc atgtactgta ttccttcaac ttcattaatg aatccatttg 180
gaagcagtga aaaaggcaac tcagaaagct aagaagaaat agatagagga atactcagag 240
ctatctgagt attttcttta gtttgttagc tctttggagc tttgaaactg gaaagaccca 300
gggagtgatg tggagaaaga gactgagctt gtaagacaca ggagcagtga gctaagggag 360
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gaggatggag cacccatggt gggggtatgt tggtgacagc attttcccac cagccagtgt 480
aacaagtggc tgatttgggg gaaagatggc ataaacaaat gagagaatgt gtttactatt 540
tgatgtagat gggttatttg cttcatttt caaatcagtg tatataatca agaatattca 600
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<210> 39
<211> 6868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1269631CB1

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47

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48

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<210> 40
<211> 2214
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1269631CD1

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Trp Thr Gln Arg Leu His Gly Gly Ser Ala Pro Leu Pro Gln Asp
                35   40   45
Arg Gly Phe Leu Val Val Gln Gly Asp Pro Arg Glu Leu Arg Leu
                50   55   60
Trp Ala Arg Gly Asp Ala Arg Gly Ala Ser Arg Ala Asp Glu Lys
                65   70   75
Pro Leu Arg Arg Lys Arg Ser Ala Ala Leu Gln Pro Glu Pro Ile
                80   85   90
Lys Val Tyr Gly Gln Val Ser Leu Asn Asp Ser His Asn Gln Met
                95   100   105
Val Val His Trp Ala Gly Glu Lys Ser Asn Val Ile Val Ala Leu
                110   115   120
Ala Arg Asp Ser Leu Ala Leu Ala Arg Pro Lys Ser Ser Asp Val
                125   130   135
Tyr Val Ser Tyr Asp Tyr Gly Lys Ser Phe Lys Lys Ile Ser Asp
                140   145   150
Lys Leu Asn Phe Gly Leu Gly Asn Arg Ser Glu Ala Val Ile Ala
                155   160   165
Gln Phe Tyr His Ser Pro Ala Asp Asn Lys Arg Tyr Ile Phe Ala
                170   175   180
Asp Ala Tyr Ala Gln Tyr Leu Trp Ile Thr Phe Asp Phe Cys Asn
                185   190   195
Thr Leu Gln Gly Phe Ser Ile Pro Phe Arg Ala Ala Asp Leu Leu
                200   205   210
Leu His Ser Lys Ala Ser Asn Leu Leu Leu Gly Phe Asp Arg Ser
                215   220   225
His Pro Asn Lys Gln Leu Trp Lys Ser Asp Asp Phe Gly Gln Thr
                230   235   240
Trp Ile Met Ile Gln Glu His Val Lys Ser Phe Ser Trp Gly Ile
                245   250   255
Asp Pro Tyr Asp Lys Pro Asn Thr Ile Tyr Ile Glu Arg His Glu
                260   265   270
Pro Ser Gly Tyr Ser Thr Val Phe Arg Ser Thr Asp Phe Phe Gln
                275   280   285
Ser Arg Glu Asn Gln Glu Val Ile Leu Glu Glu Val Arg Asp Phe
                290   295   300
Gln Leu Arg Asp Lys Tyr Met Phe Ala Thr Lys Val Val His Leu
                305   310   315
Leu Gly Ser Glu Gln Gln Ser Ser Val Gln Leu Trp Val Ser Phe
                320   325   330

49

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Ile Asn Glu Tyr Tyr Ile Ala Asp Ala Ser Glu Asp Gln Val Phe
            350             355                     360
Val Cys Val Ser His Ser Asn Asn Arg Thr Asn Leu Tyr Ile Ser
            365             370                     375
Glu Ala Glu Gly Leu Lys Phe Ser Leu Ser Leu Glu Asn Val Leu
            380             385                     390
Tyr Tyr Ser Pro Gly Gly Ala Gly Ser Asp Thr Leu Val Arg Tyr
            395             400                     405
Phe Ala Asn Glu Pro Phe Ala Asp Phe His Arg Val Glu Gly Leu
            410             415                     420
Gln Gly Val Tyr Ile Ala Thr Leu Ile Asn Gly Ser Met Asn Glu
            425             430                     435
Glu Asn Met Arg Ser Val Ile Thr Phe Asp Lys Gly Gly Thr Trp
            440             445                     450
Glu Phe Leu Gln Ala Pro Ala Phe Thr Gly Tyr Gly Glu Lys Ile
            455             460                     465
Asn Cys Glu Leu Ser Gln Gly Cys Ser Leu His Leu Ala Gln Arg
            470             475                     480
Leu Ser Gln Leu Leu Asn Leu Gln Leu Arg Arg Met Pro Ile Leu
            485             490                     495
Ser Lys Glu Ser Ala Pro Gly Leu Ile Ile Ala Thr Gly Ser Val
            500             505                     510
Gly Lys Asn Leu Ala Ser Lys Thr Asn Val Tyr Ile Ser Ser Ser
            515             520                     525
Ala Gly Ala Arg Trp Arg Glu Ala Leu Pro Gly Pro His Tyr Tyr
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Thr Trp Gly Asp His Gly Gly Ile Ile Thr Ala Ile Ala Gln Gly
            545             550                     555
Met Glu Thr Asn Glu Leu Lys Tyr Ser Thr Asn Glu Gly Glu Thr
            560             565                     570
Trp Lys Thr Phe Ile Phe Ser Glu Lys Pro Val Phe Val Tyr Gly
            575             580                     585
Leu Leu Thr Glu Pro Gly Glu Lys Ser Thr Val Phe Thr Ile Phe
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Gly Ser Asn Lys Glu Asn Val His Ser Trp Leu Ile Leu Gln Val
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Asn Ala Thr Asp Ala Leu Gly Val Pro Cys Thr Glu Asn Asp Tyr
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Lys Leu Trp Ser Pro Ser Asp Glu Arg Gly Asn Glu Cys Leu Leu
            635             640                     645
Gly His Lys Thr Val Phe Lys Arg Arg Thr Pro His Ala Thr Cys
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Phe Asn Gly Glu Asp Phe Asp Arg Pro Val Val Val Ser Asn Cys
            665             670                     675
Ser Cys Thr Arg Glu Asp Tyr Glu Cys Asp Phe Gly Phe Lys Met
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Ser Glu Asp Leu Ser Leu Glu Val Cys Val Pro Asp Pro Glu Phe
            695             700                     705
Ser Gly Lys Ser Tyr Ser Pro Pro Val Pro Cys Pro Val Gly Ser
            710             715                     720
Thr Tyr Arg Arg Thr Arg Gly Tyr Arg Lys Ile Ser Gly Asp Thr
            725             730                     735
Cys Ser Gly Gly Asp Val Glu Ala Arg Leu Glu Gly Glu Leu Val
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50

Pro Cys Pro Leu Ala Glu Glu Asn Glu Phe Ile Leu Tyr Ala Val
          755   760   765

Arg Lys Ser Ile Tyr Arg Tyr Asp Leu Ala Ser Gly Ala Thr Glu
          770   775   780

Gln Leu Pro Leu Thr Gly Leu Arg Ala Ala Val Ala Leu Asp Phe
          785   790   795

Asp Tyr Glu His Asn Cys Leu Tyr Trp Ser Asp Leu Ala Leu Asp
          800   805   810

Val Ile Gln Arg Leu Cys Leu Asn Gly Ser Thr Gly Gln Glu Val
          815   820   825

Ile Ile Asn Ser Gly Leu Glu Thr Val Glu Ala Leu Ala Phe Glu
          830   835   840

Pro Leu Ser Gln Leu Leu Tyr Trp Val Asp Ala Gly Phe Lys Lys
          845   850   855

Ile Glu Val Ala Asn Pro Asp Gly Asp Phe Arg Leu Thr Ile Val
          860   865   870

Asn Ser Ser Val Leu Asp Arg Pro Arg Ala Leu Val Leu Val Pro
          875   880   885

Gln Glu Gly Val Met Phe Trp Thr Asp Trp Gly Asp Leu Lys Pro
          890   895   900

Gly Ile Tyr Arg Ser Asn Met Asp Gly Ser Ala Ala Tyr His Leu
          905   910   915

Val Ser Glu Asp Val Lys Trp Pro Asn Gly Ile Ser Val Asp Asp
          920   925   930

Gln Trp Ile Tyr Trp Thr Asp Ala Tyr Leu Glu Cys Ile Glu Arg
          935   940   945

Ile Thr Phe Ser Gly Gln Gln Arg Ser Val Ile Leu Asp Asn Leu
          950   955   960

Pro His Pro Tyr Ala Ile Ala Val Phe Lys Asn Glu Ile Tyr Trp
          965   970   975

Asp Asp Trp Ser Gln Leu Ser Ile Phe Arg Ala Ser Lys Tyr Ser
          980   985   990

Gly Ser Gln Met Glu Ile Leu Ala Asn Gln Leu Thr Gly Leu Met
          995   1000   1005

Asp Met Lys Ile Phe Tyr Lys Gly Lys Asn Thr Gly Ser Asn Ala
          1010   1015   1020

Cys Val Pro Arg Pro Cys Ser Leu Leu Cys Leu Pro Lys Ala Asn
          1025   1030   1035

Asn Ser Arg Ser Cys Arg Cys Pro Glu Asp Val Ser Ser Ser Val
          1040   1045   1050

Leu Pro Ser Gly Asp Leu Met Cys Asp Cys Pro Gln Gly Tyr Gln
          1055   1060   1065

Leu Lys Asn Asn Thr Cys Val Lys Glu Glu Asn Thr Cys Leu Arg
          1070   1075   1080

Asn Gln Tyr Arg Cys Ser Asn Gly Asn Cys Ile Asn Ser Ile Trp
          1085   1090   1095

Trp Cys Asp Phe Asp Asn Asp Cys Gly Asp Met Ser Asp Glu Arg
          1100   1105   1110

Asn Cys Pro Thr Thr Ile Cys Asp Leu Asp Thr Gln Phe Arg Cys
          1115   1120   1125

Gln Glu Ser Gly Thr Cys Ile Pro Leu Ser Tyr Lys Cys Asp Leu
          1130   1135   1140

Glu Asp Asp Cys Gly Asp Asn Ser Asp Glu Ser His Cys Glu Met
          1145   1150   1155

His Gln Cys Arg Ser Asp Glu Tyr Asn Cys Ser Ser Gly Met Cys
          1160   1165   1170

Ile Arg Ser Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Arg Asp
     1175   1180   1185

Trp Ser Asp Glu Ala Asn Cys Thr Ala Ile Tyr His Thr Cys Glu
     1190   1195   1200

Ala Ser Asn Phe Gln Cys Arg Asn Gly His Cys Ile Pro Gln Arg
     1205   1210   1215

Trp Ala Cys Asp Gly Asp Thr Asp Cys Gln Asp Gly Ser Asp Glu
     1220   1225   1230

Asp Pro Val Asn Cys Glu Lys Lys Cys Asn Gly Phe Arg Cys Pro
     1235   1240   1245

Asn Gly Thr Cys Ile Pro Ser Ser Lys His Cys Asp Gly Leu Arg
     1250   1255   1260

Asp Cys Ser Asp Gly Ser Asp Glu Gln His Cys Glu Pro Leu Cys
     1265   1270   1275

Thr His Phe Met Asp Phe Val Cys Lys Asn Arg Gln Gln Cys Leu
     1280   1285   1290

Phe His Ser Met Val Cys Asp Gly Ile Ile Gln Cys Arg Asp Gly
     1295   1300   1305

Ser Asp Glu Asp Ala Ala Phe Ala Gly Cys Ser Gln Asp Pro Glu
     1310   1315   1320

Phe His Lys Val Cys Asp Glu Phe Gly Phe Gln Cys Gln Asn Gly
     1325   1330   1335

Val Cys Ile Ser Leu Ile Trp Lys Cys Asp Gly Met Asp Asp Cys
     1340   1345   1350

Gly Asp Tyr Ser Asp Glu Ala Asn Cys Glu Asn Pro Thr Glu Ala
     1355   1360   1365

Pro Asn Cys Ser Arg Tyr Phe Gln Phe Arg Cys Glu Asn Gly His
     1370   1375   1380

Cys Ile Pro Asn Arg Trp Lys Cys Asp Arg Glu Asn Asp Cys Gly
     1385   1390   1395

Asp Trp Ser Asp Glu Lys Asp Cys Gly Asp Ser His Ile Leu Pro
     1400   1405   1410

Phe Ser Thr Pro Gly Pro Ser Thr Cys Leu Pro Asn Tyr Tyr Arg
     1415   1420   1425

Cys Ser Ser Gly Thr Cys Val Met Asp Thr Trp Val Cys Asp Gly
     1430   1435   1440

Tyr Arg Asp Cys Ala Asp Gly Ser Asp Glu Glu Ala Cys Pro Leu
     1445   1450   1455

Leu Ala Asn Val Thr Ala Ala Ser Thr Pro Thr Gln Leu Gly Arg
     1460   1465   1470

Cys Asp Arg Phe Glu Phe Glu Cys His Gln Pro Lys Thr Cys Ile
     1475   1480   1485

Pro Asn Trp Lys Arg Cys Asp Gly His Gln Asp Cys Gln Asp Gly
     1490   1495   1500

Arg Asp Glu Ala Asn Cys Pro Thr His Ser Thr Leu Thr Cys Met
     1505   1510   1515

Ser Arg Glu Phe Gln Cys Glu Asp Gly Glu Ala Cys Ile Val Leu
     1520   1525   1530

Ser Glu Arg Cys Asp Gly Phe Leu Asp Cys Ser Asp Glu Ser Asp
     1535   1540   1545

Glu Lys Ala Cys Ser Asp Glu Leu Thr Val Tyr Lys Val Gln Asn
     1550   1555   1560

Leu Gln Trp Thr Ala Asp Phe Ser Gly Asp Val Thr Leu Thr Trp
     1565   1570   1575

Met Arg Pro Lys Lys Met Pro Ser Ala Ser Cys Val Tyr Asn Val
     1580   1585   1590

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```
Tyr Tyr Arg Val Val Gly Glu Ser Ile Trp Lys Thr Leu Glu Thr
            1595                1600              1605
His Ser Asn Lys Thr Asn Thr Val Leu Lys Val Leu Lys Pro Asp
            1610                1615              1620
Thr Thr Tyr Gln Val Lys Val Gln Val Gln Cys Leu Ser Lys Ala
            1625                1630              1635
His Asn Thr Asn Asp Phe Val Thr Leu Arg Thr Pro Glu Gly Leu
            1640                1645              1650
Pro Asp Ala Pro Arg Asn Leu Gln Leu Ser Leu Pro Arg Glu Ala
            1655                1660              1665
Glu Gly Val Ile Val Gly His Trp Ala Pro Pro Ile His Thr His
            1670                1675              1680
Gly Leu Ile Arg Glu Tyr Ile Val Glu Tyr Ser Arg Ser Gly Ser
            1685                1690              1695
Lys Met Trp Ala Ser Gln Arg Ala Ala Ser Asn Phe Thr Glu Ile
            1700                1705              1710
Lys Asn Leu Leu Val Asn Thr Leu Tyr Thr Val Arg Val Ala Ala
            1715                1720              1725
Val Thr Ser Arg Gly Ile Gly Asn Trp Ser Asp Ser Lys Ser Ile
            1730                1735              1740
Thr Thr Ile Lys Gly Lys Val Ile Pro Pro Pro Asp Ile His Ile
            1745                1750              1755
Asp Ser Tyr Gly Glu Asn Tyr Leu Ser Phe Thr Leu Thr Met Glu
            1760                1765              1770
Ser Asp Ile Lys Val Asn Gly Tyr Val Val Asn Leu Phe Trp Ala
            1775                1780              1785
Phe Asp Thr His Lys Gln Glu Arg Arg Thr Leu Asn Phe Arg Gly
            1790                1795              1800
Ser Ile Leu Ser His Lys Val Gly Asn Leu Thr Ala His Thr Ser
            1805                1810              1815
Tyr Glu Ile Ser Ala Trp Ala Lys Thr Asp Leu Gly Asp Ser Pro
            1820                1825              1830
Leu Ala Phe Glu His Val Met Thr Arg Gly Val Arg Pro Pro Ala
            1835                1840              1845
Pro Ser Leu Lys Ala Lys Ala Ile Asn Gln Thr Ala Val Glu Cys
            1850                1855              1860
Thr Trp Thr Gly Pro Arg Asn Val Val Tyr Gly Ile Phe Tyr Ala
            1865                1870              1875
Thr Ser Phe Leu Asp Leu Tyr Arg Asn Pro Lys Ser Leu Thr Thr
            1880                1885              1890
Ser Leu His Asn Lys Thr Val Ile Val Ser Lys Asp Glu Gln Tyr
            1895                1900              1905
Leu Phe Leu Val Arg Val Val Val Pro Tyr Gln Gly Pro Ser Ser
            1910                1915              1920
Asp Tyr Val Val Val Lys Met Ile Pro Asp Ser Arg Leu Pro Pro
            1925                1930              1935
Arg His Leu His Val Val His Thr Gly Lys Thr Ser Val Val Ile
            1940                1945              1950
Lys Trp Glu Ser Pro Tyr Asp Ser Pro Asp Gln Asp Leu Leu Tyr
            1955                1960              1965
Ala Ile Ala Val Lys Asp Leu Ile Arg Lys Thr Asp Arg Ser Tyr
            1970                1975              1980
Lys Val Lys Ser Arg Asn Ser Thr Val Glu Tyr Thr Leu Asn Lys
            1985                1990              1995
Leu Glu Pro Gly Gly Lys Tyr His Ile Ile Val Gln Leu Gly Asn
            2000                2005              2010
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53

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Met Ser Lys Asp Ser Ser Ile Lys Ile Thr Thr Val Ser Leu Ser
              2015              2020              2025
Ala Pro Asp Ala Leu Lys Ile Ile Thr Glu Asn Asp His Val Leu
              2030              2035              2040
Leu Phe Trp Lys Ser Leu Ala Leu Lys Glu Lys His Phe Asn Glu
              2045              2050              2055
Ser Arg Gly Tyr Glu Ile His Met Phe Asp Ser Ala Met Asn Ile
              2060              2065              2070
Thr Ala Tyr Leu Gly Asn Thr Thr Asp Asn Phe Phe Lys Ile Ser
              2075              2080              2085
Asn Leu Lys Met Gly His Asn Tyr Thr Phe Thr Val Gln Ala Arg
              2090              2095              2100
Cys Leu Phe Gly Asn Gln Ile Cys Gly Glu Pro Ala Ile Leu Leu
              2105              2110              2115
Tyr Asp Glu Leu Gly Ser Gly Ala Asp Ala Ser Ala Thr Gln Ala
              2120              2125              2130
Ala Arg Ser Thr Asp Val Ala Ala Val Val Val Pro Ile Leu Phe
              2135              2140              2145
Leu Ile Leu Leu Ser Leu Gly Val Gly Phe Ala Ile Leu Tyr Thr
              2150              2155              2160
Lys His Arg Arg Leu Gln Ser Ser Phe Thr Ala Phe Ala Asn Ser
              2165              2170              2175
His Tyr Ser Ser Arg Leu Gly Ser Ala Ile Phe Ser Ser Gly Asp
              2180              2185              2190
Asp Leu Gly Glu Asp Asp Glu Asp Ala Pro Met Ile Thr Gly Phe
              2195              2200              2205
Ser Asp Asp Val Pro Met Val Ile Ala
              2210
<210> 41
<211> 2167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 961189CB1

<400> 41
cgcgagctgt ctcggtccca cgtgtgcgag ttgctacgat ggaagttaaa gggaaaaagc 60
aattcacagg aaagagtaca aagacagcac aagaaaaaaa cagatttcat aaaaatagtg 120
attctggttc ttcaaagaca tttccaacaa ggaaagttgc taaagaaggt ggacctaaag 180
tcacatctag gaactttgag aaaagtatca caaaacttgg gaaaaagggt gtaaagcagt 240
tcaagaataa gcagcaaggg gacaaatcac caaagaacaa attccagccg gcaaataaat 300
tcaacaagaa gagaaaattc cagccagatg gtagaagcga tgaatcagca gccaagaagc 360
ccaaatggga tgacttcaaa aagaagaaga aagaactgaa gcaaagcaga caactcagtg 420
ataaaaccaa ctatgacatt gttgttcggg caaagcagat gtgggagatt ttaagaagaa 480
aagactgtga caaagaaaaa agagtaaagt taatgagtga tttgcagaag ttgattcaag 540
ggaaaattaa aactattgca tttgcacacg attcaactcg tgtgatccag tgttacattc 600
agtatggtaa tgaagaacag agaaaacagg cttttgaaga attgcgagat gatttggttg 660
agttaagtaa agccaaatat tcgagaaata ttgttaagaa atttctcatg tatggaagta 720
aaccacagat tgcagagata atcagaagtt ttaaaggcca cgtgaggaag atgctgcggc 780
atgcggaagc atcagccatc gtggagtacg catacaatga caaagccatt ttggagcaga 840
ggaacatgct gacggaagag ctctatggga cacatttca gctttacaag tcagcagatc 900
acccaactct ggacaaagtg ttagaggtac agccagaaaa attagaactt attatggatg 960
aaatgaaaca gattctaact ccaatggccc aaaaggaagc tgtgattaag cactcattgg 1020
tgcataaagt attcttggac tttttacct atgcaccccc caaactcaga tcagaaatga 1080
```

54

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ttgaagccat ccgcgaagcg gtggtctacc tggcacacac acacgatggc gccagagtgg 1140
ccatgcactg cctgtggcat ggcacgccca aggacaggaa agtgattgtg aaaacaatga 1200
agacttatgt tgaaaaggtg gctaatggcc aatactccca ttttggtttta ctggcggcat 1260
ttgattgtat tgatgatact aagcttgtga agcagataat catatcagaa attatcagtt 1320
cattgcctag catagtaaat gacaaatatg gaaggaaggt cctattgtac ttactaagcc 1380
ccagagatcc tgcacataca gtacgagaaa tcattgaagt tctgcaaaaa ggagatggaa 1440
atgcacacag taagaaagat acagaggtcc gcagacggga gctcctagaa tccatttctc 1500
cagctttgtt aagctacctg caagaacatg cccaagaagt ggtgctagat aagtctgcgt 1560
gtgtgttggt gtctgacatt ctgggatctg ccactggaga cgttcagcct accatgaatg 1620
ccatcgccag cttggcagca acaggactgc atcctggtgg caaggacgga gagcttcaca 1680
ttgcagaaca tcctgcagga catctagttc tgaagtggtt aatagagcaa gataaaaaga 1740
tgaaagaaaa tggggagagaa ggttgttttg caaaaacact tgtagagcat gttggtatga 1800
agaacctgaa gtcctgggct agtgtaaatc gaggtgccat tattctttct agcctcctcc 1860
agagttgtga cctggaagtt gcaaacaaag tcaaagctgc actgaaaagc ttgattccta 1920
cattggaaaa aaccaaaagc accagcaaag gaatagaaat tctacttgaa aaactgagca 1980
cataggtgga aagagttaag agcaagatgg aatgattttt tctgttctct gttctgtttc 2040
ccaatgcaga aaagaagggg tagggtccac catactggta attggggtac tctgtatatg 2100
tgtttcttct ttgtatacga atctatttat ataaattgtt tttttaaatg gtaaaaaaaa 2160
aaaaaaa                                                          2167
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<210> 42
<211> 648
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 961189CD1

<400> 42
Met Glu Val Lys Gly Lys Lys Gln Phe Thr Gly Lys Ser Thr Lys
1               5                   10                  15
Thr Ala Gln Glu Lys Asn Arg Phe His Lys Asn Ser Asp Ser Gly
                20                  25                  30
Ser Ser Lys Thr Phe Pro Thr Arg Lys Val Ala Lys Glu Gly Gly
                35                  40                  45
Pro Lys Val Thr Ser Arg Asn Phe Glu Lys Ser Ile Thr Lys Leu
                50                  55                  60
Gly Lys Lys Gly Val Lys Gln Phe Lys Asn Lys Gln Gln Gly Asp
                65                  70                  75
Lys Ser Pro Lys Asn Lys Phe Gln Pro Ala Asn Lys Phe Asn Lys
                80                  85                  90
Lys Arg Lys Phe Gln Pro Asp Gly Arg Ser Asp Glu Ser Ala Ala
                95                  100                 105
Lys Lys Pro Lys Trp Asp Asp Phe Lys Lys Lys Lys Glu Leu
                110                 115                 120
Lys Gln Ser Arg Gln Leu Ser Asp Lys Thr Asn Tyr Asp Ile Val
                125                 130                 135
Val Arg Ala Lys Gln Met Trp Glu Ile Leu Arg Arg Lys Asp Cys
                140                 145                 150
Asp Lys Glu Lys Arg Val Lys Leu Met Ser Asp Leu Gln Lys Leu
                155                 160                 165
Ile Gln Gly Lys Ile Lys Thr Ile Ala Phe Ala His Asp Ser Thr
                170                 175                 180
Arg Val Ile Gln Cys Tyr Ile Gln Tyr Gly Asn Glu Glu Gln Arg
                185                 190                 195
```

55

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Lys Gln Ala Phe Glu Glu Leu Arg Asp Asp Leu Val Glu Leu Ser
            200                 205                 210
Lys Ala Lys Tyr Ser Arg Asn Ile Val Lys Lys Phe Leu Met Tyr
            215                 220                 225
Gly Ser Lys Pro Gln Ile Ala Glu Ile Ile Arg Ser Phe Lys Gly
            230                 235                 240
His Val Arg Lys Met Leu Arg His Ala Glu Ala Ser Ala Ile Val
            245                 250                 255
Glu Tyr Ala Tyr Asn Asp Lys Ala Ile Leu Glu Gln Arg Asn Met
            260                 265                 270
Leu Thr Glu Glu Leu Tyr Gly Asn Thr Phe Gln Leu Tyr Lys Ser
            275                 280                 285
Ala Asp His Pro Thr Leu Asp Lys Val Leu Glu Val Gln Pro Glu
            290                 295                 300
Lys Leu Glu Leu Ile Met Asp Glu Met Lys Gln Ile Leu Thr Pro
            305                 310                 315
Met Ala Gln Lys Glu Ala Val Ile Lys His Ser Leu Val His Lys
            320                 325                 330
Val Phe Leu Asp Phe Phe Thr Tyr Ala Pro Pro Lys Leu Arg Ser
            335                 340                 345
Glu Met Ile Glu Ala Ile Arg Glu Ala Val Val Tyr Leu Ala His
            350                 355                 360
Thr His Asp Gly Ala Arg Val Ala Met His Cys Leu Trp His Gly
            365                 370                 375
Thr Pro Lys Asp Arg Lys Val Ile Val Lys Thr Met Lys Thr Tyr
            380                 385                 390
Val Glu Lys Val Ala Asn Gly Gln Tyr Ser His Leu Val Leu Leu
            395                 400                 405
Ala Ala Phe Asp Cys Ile Asp Asp Thr Lys Leu Val Lys Gln Ile
            410                 415                 420
Ile Ile Ser Glu Ile Ile Ser Ser Leu Pro Ser Ile Val Asn Asp
            425                 430                 435
Lys Tyr Gly Arg Lys Val Leu Leu Tyr Leu Leu Ser Pro Arg Asp
            440                 445                 450
Pro Ala His Thr Val Arg Glu Ile Ile Glu Val Leu Gln Lys Gly
            455                 460                 465
Asp Gly Asn Ala His Ser Lys Lys Asp Thr Glu Val Arg Arg Arg
            470                 475                 480
Glu Leu Leu Glu Ser Ile Ser Pro Ala Leu Leu Ser Tyr Leu Gln
            485                 490                 495
Glu His Ala Gln Glu Val Val Leu Asp Lys Ser Ala Cys Val Leu
            500                 505                 510
Val Ser Asp Ile Leu Gly Ser Ala Thr Gly Asp Val Gln Pro Thr
            515                 520                 525
Met Asn Ala Ile Ala Ser Leu Ala Ala Thr Gly Leu His Pro Gly
            530                 535                 540
Gly Lys Asp Gly Glu Leu His Ile Ala Glu His Pro Ala Gly His
            545                 550                 555
Leu Val Leu Lys Trp Leu Ile Glu Gln Asp Lys Lys Met Lys Glu
            560                 565                 570
Asn Gly Arg Glu Gly Cys Phe Ala Lys Thr Leu Val Glu His Val
            575                 580                 585
Gly Met Lys Asn Leu Lys Ser Trp Ala Ser Val Asn Arg Gly Ala
            590                 595                 600
Ile Ile Leu Ser Ser Leu Leu Gln Ser Cys Asp Leu Glu Val Ala
            605                 610                 615
```

56

```
Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile Pro Thr Leu Glu
                620                 625                 630
Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu Leu Glu Lys
                635                 640                 645
Leu Ser Thr
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<210> 43
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 246946.1

<400> 43
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ctgtcagtgt gtctcctgat ggtctcgctg gcccttttgct gctaccaggc ccatgctctt 120
gtctgcccag ctgttgcttc tgagatcaca gtcttcttat tcttaagtga cgctgcggta 180
aacctccaag ttgccaaact taatccacct ccagaagctc ttgcagccaa gttggaagtg 240
aagcactgca ccgatcagat atctttttaag aaacgactct cattgaaaaa gtcctggtgg 300
aaatagtgaa aaaatgtggt gtgtgacatg taaaaatgct caacctggtt tccaaagtct 360
ttcaacgaca ccctgatctt cactaaaaat tgtaaaggtt tcaacacgtt gctttaataa 420
atcacttgcc ctgc                                              434
```

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<210> 44
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 017958.1

<400> 44
ggggacaacc taaaaggtca agaatagggа agaaagttaa attaccagca cactattgca 60
ctgatttatt ggaatgctat gtggccataa aatgacattg caaaagaata tttagtagat 120
gggaaaaata ttcactacat attaagcaca cacaaaaata atgcatgcat catgatttac 180
gtatgtttct aggatgttat atgactagta gagtacatac tgaaatgtcg gttggttatc 240
tctggctgct gccattatg                                          259
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<210> 45
<211> 1308
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 985556.1

<220>
<221> unsure
<222> 905
<223> a, t, c, g, or other

<400> 45
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ggcaaaattg gagctgtcca ggccaggaca ccccgatgtc cagggcttcc atacgaacag 60
gcacatgggc tgggaagtac atgaggcccc tgggtagaag ggtctgtcag ttctctcctc 120
ccttgccctc tgggagggtc ctcctaacat agcttccagg aggtgggagg agcagttact 180
gtcagcaggt gtcagccagg tgtcagcttc tcctggggat ctctagatgt ctgcttgtga 240
tttttggcaa gtatatgcaa atgagcctcc tctcctgccc tgagacaagt atctgcagtg 300
tgaacctggc agcctcagac ccaagggct cagaggaaac ttctctggtt tctagagctc 360
tgtgctcctt cagagaagtc ttccttcctt ccagtcagtg tccctgtgaa gctgggatac 420
tcatttcctg tgtaccgggc aaacaccgga ttgctgattt tgagaaatgc ctctcgatgg 480
acctgtaacc tgctggagtc tgggatggta gctgtgggct ggacttggct gatgggatga 540
cccggtggct agtgcagcat cacacaagcc tggttcaagt cttggctgtg tcatttcctg 600
ctgagggacc aggcactgaa tttcctacct cttagggtca ttacctatga ggttaaagct 660
acctcatggg attgttatac gccactaatg ttgaggcaga cacctcttgg cagggtgact 720
gctcatctta gaccctcccc ttttctgcga atttgggccc cttgatcctc tgatgggagc 780
tgaaaggatg agaggtgggc atctagattt agggaggctg ttcaggcttt gcaggtccct 840
tacctgaaca catagaaacc ctggagctgt gactgtgtcc atgtgtgtgt gtttgtctgt 900
gtgtnttgcg ggggatgggc acctgcatga atgtggtaga gaaaatggct ctgctcagag 960
ggaagatacg catagcaagg cagggaccag aggaatcaca ggcgcctgga gagcagccgg 1020
gcaccgcctc cagggacctg ccggcttccc tcagtcctcc aggggcccag cactcttcct 1080
ttaggccctg tgagcgtccc ttgtcaggat acattctctc attttgctga agctgatttg 1140
attgggtgtc tgtttctcgc agccaaaaga gctctgaatg aggaaagtgc ttctgtgcta 1200
actccccgcg tctcctgaat ttcagtcatt catgtacccg cctcgaaatt tttgcaatat 1260
ctgtgtacca actgtccatt tacttaataa agaagttttc tttaaatt 1308
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<210> 46
<211> 2523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 476301CB1

<400> 46
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ctcttcagac gccggagacg taggagtggg tcttcagact ccaaaggggt tggactaatg 60
gcggatgctg aggcgagggc tgagttcccg gaggaggcca gacctgacag gggcaccttg 120
caggtgttgc aagatatggc cagccgcttg cgaatccatt ccatcagggc cacatgctcc 180
acgagctccg gccaccctac atcatgtagc agttcttctg agatcatgtc tgtgctgttc 240
ttctacatca tgaggtacaa gcagtcagat ccagagaatc cggacaacga ccgatttgtc 300
ctcgcaaaga gactgtcgtt tgtggatgtg caacaggat ggctcggaca aggactggga 360
gttgcatgtg aatggcata tactggcaag tacttcgaca gggccagcta ccgggtgttc 420
tgcctcatga gtgatggcga gtcctcagaa ggctctgtct gggaggcaat ggcctttgct 480
tcctactaca gtctggacaa tcttgtggca atctttgatg tgaaccgcct gggacacagt 540
ggtgcattgc ccgccgagca ctgcataaac atctatcaga ggcgctgcga agcctttggg 600
tggaacactt atgtggtgga cggccgggac gtggaggcac tgtgccaggt attctggcag 660
gcttctcagg tgaagcacaa gcccactgct gtggtggcca agaccttcaa gggccggggc 720
accccaagta ttgaggatgc agaaagttgg catgcaaagc caatgccgag agaaagagca 780
gatgccatta tcaaattaat tgagagccag atacagacca gcaggaatct tgacccacag 840
cccccccattg aggactcacc tgaagtcaac atcacagatg taaggatgac ctctccacct 900
gattacagag ttggtgacaa gatagctact cggaaagcat gcggtctggc tctggctaag 960
ctgggctacg cgaacaacag agtcgttgtg ctggatggtg acaccaggta ctctactttc 1020
tctgagatat tcaacaagga gtaccctgag cgcttcatcg agtgctttat ggctgaacaa 1080
aacatggtga gcgtggctct gggctgtgcc tcccgtggac ggaccattgc ttttgctagc 1140
acctttgctg cctttctgac tcgagcattt gatcacatcc ggataggagg cctcgctgag 1200
agcaacatca acattattgg ttcccactgt ggggtatctg ttggtgacga tggtgcttcc 1260
cagatggccc tggaggatat agccatgttc cgaaccattc ccaagtgcac gatcttctac 1320
ccaactgatg ccgtctccac ggagcatgct gttgctctgg cagccaatgc caagggggatg 1380
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58

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tgcttcattc ggaccacccg accagaaact atggttattt acaccccaca agaacgcttt 1440
gagatcggac aggccaaggt cctccgccac tgtgtcagtg acaaggtcac agttattgga 1500
gctggaatta ctgtgtatga agccttagca gctgctgatg agctttcgaa acaagatatt 1560
tttatccgtg tcatcgacct gtttaccatt aaacctctgg atgtcgccac catcgtctcc 1620
agtgcaaaag ccacagaggg ccggatcatt acagtggagg atcactaccc gcaaggtggc 1680
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agtgccagac atatcatagt ggccgtgaaa tgcatgttgc tgaactaaaa tagctgttag 1860
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aaacaaccac ctgatagtaa gttttctgat aagactatag ataagtggta gaggtaatca 2160
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agcacgataa caccatgacg cctactgctg ttcccacctt gggattctgt gtgctgccat 2340
cccacctgca gctgccctgg aattcccttc gctgtttgcc ttcatctccc tccacgtttg 2400
agaggctgtc aggcagcagc gaaagcttgt taggatgtcc tgtgctgctt gtgatgagag 2460
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aaa                                                                  2523
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<210> 47
<211> 596
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 476301CD1

<400> 47
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Pro Asp Arg Gly Thr Leu Gln Val Leu Gln Asp Met Ala Ser Arg
                 20                  25                  30
Leu Arg Ile His Ser Ile Arg Ala Thr Cys Ser Thr Ser Ser Gly
                 35                  40                  45
His Pro Thr Ser Cys Ser Ser Ser Ser Glu Ile Met Ser Val Leu
                 50                  55                  60
Phe Phe Tyr Ile Met Arg Tyr Lys Gln Ser Asp Pro Glu Asn Pro
                 65                  70                  75
Asp Asn Asp Arg Phe Val Leu Ala Lys Arg Leu Ser Phe Val Asp
                 80                  85                  90
Val Ala Thr Gly Trp Leu Gly Gln Gly Leu Gly Val Ala Cys Gly
                 95                 100                 105
Met Ala Tyr Thr Gly Lys Tyr Phe Asp Arg Ala Ser Tyr Arg Val
                110                 115                 120
Phe Cys Leu Met Ser Asp Gly Glu Ser Ser Glu Gly Ser Val Trp
                125                 130                 135
Glu Ala Met Ala Phe Ala Ser Tyr Tyr Ser Leu Asp Asn Leu Val
                140                 145                 150
Ala Ile Phe Asp Val Asn Arg Leu Gly His Ser Gly Ala Leu Pro
                155                 160                 165
Ala Glu His Cys Ile Asn Ile Tyr Gln Arg Arg Cys Glu Ala Phe
                170                 175                 180
Gly Trp Asn Thr Tyr Val Val Asp Gly Arg Asp Val Glu Ala Leu
```

```
                     185                     190                     195
Cys Gln Val Phe Trp Gln Ala Ser Gln Val Lys His Lys Pro Thr
                     200                     205                     210
Ala Val Val Ala Lys Thr Phe Lys Gly Arg Gly Thr Pro Ser Ile
                     215                     220                     225
Glu Asp Ala Glu Ser Trp His Ala Lys Pro Met Pro Arg Glu Arg
                     230                     235                     240
Ala Asp Ala Ile Ile Lys Leu Ile Glu Ser Gln Ile Gln Thr Ser
                     245                     250                     255
Arg Asn Leu Asp Pro Gln Pro Pro Ile Glu Asp Ser Pro Glu Val
                     260                     265                     270
Asn Ile Thr Asp Val Arg Met Thr Ser Pro Pro Asp Tyr Arg Val
                     275                     280                     285
Gly Asp Lys Ile Ala Thr Arg Lys Ala Cys Gly Leu Ala Leu Ala
                     290                     295                     300
Lys Leu Gly Tyr Ala Asn Asn Arg Val Val Val Leu Asp Gly Asp
                     305                     310                     315
Thr Arg Tyr Ser Thr Phe Ser Glu Ile Phe Asn Lys Glu Tyr Pro
                     320                     325                     330
Glu Arg Phe Ile Glu Cys Phe Met Ala Glu Gln Asn Met Val Ser
                     335                     340                     345
Val Ala Leu Gly Cys Ala Ser Arg Gly Arg Thr Ile Ala Phe Ala
                     350                     355                     360
Ser Thr Phe Ala Ala Phe Leu Thr Arg Ala Phe Asp His Ile Arg
                     365                     370                     375
Ile Gly Gly Leu Ala Glu Ser Asn Ile Asn Ile Ile Gly Ser His
                     380                     385                     390
Cys Gly Val Ser Val Gly Asp Asp Gly Ala Ser Gln Met Ala Leu
                     395                     400                     405
Glu Asp Ile Ala Met Phe Arg Thr Ile Pro Lys Cys Thr Ile Phe
                     410                     415                     420
Tyr Pro Thr Asp Ala Val Ser Thr Glu His Ala Val Ala Leu Ala
                     425                     430                     435
Ala Asn Ala Lys Gly Met Cys Phe Ile Arg Thr Thr Arg Pro Glu
                     440                     445                     450
Thr Met Val Ile Tyr Thr Pro Gln Glu Arg Phe Glu Ile Gly Gln
                     455                     460                     465
Ala Lys Val Leu Arg His Cys Val Ser Asp Lys Val Thr Val Ile
                     470                     475                     480
Gly Ala Gly Ile Thr Val Tyr Glu Ala Leu Ala Ala Ala Asp Glu
                     485                     490                     495
Leu Ser Lys Gln Asp Ile Phe Ile Arg Val Ile Asp Leu Phe Thr
                     500                     505                     510
Ile Lys Pro Leu Asp Val Ala Thr Ile Val Ser Ser Ala Lys Ala
                     515                     520                     525
Thr Glu Gly Arg Ile Ile Thr Val Glu Asp His Tyr Pro Gln Gly
                     530                     535                     540
Gly Ile Gly Glu Ala Val Cys Ala Ala Val Ser Met Asp Pro Asp
                     545                     550                     555
Ile Gln Val His Ser Leu Ala Val Ser Gly Val Pro Gln Ser Gly
                     560                     565                     570
Lys Ser Glu Glu Leu Leu Asp Met Tyr Gly Ile Ser Ala Arg His
                     575                     580                     585
Ile Ile Val Ala Val Lys Cys Met Leu Leu Asn
                     590                     595
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<210> 48

60

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<211> 2492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 996427.2

<400> 48
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tttttagact gactcttatc ataagttttg cctttataaa ttctgagtta aataaaatga 180
ccaattgtag tcatgaccag gcatgaagat tccatccctg aggggtaaag cagtagacta 240
ctgccagctc cacttcagtt caggccacat caccctcagt cctgaaggag accccttctt 300
agcctccagt tgttgcactg caactctgcc tcgaattggg ctatgcccga gtatcctcag 360
agtttagatg ggcagtgtat ttttgcttaa gtagaagaat gtagttgtgc cactgagaag 420
gataaccaga aaaggttaga tatatttgtc agttcacttt tactcaaatt tccattgagt 480
tacttaagaa atcagttctt caaagtggat atgtacatta cagactctgt cacctacaca 540
tacacaggaa tcttttgaag aataagatct gggtaatact ggagtaggat gtaggaaggt 600
taatgttgta tagatgatgt tttaaagata gagtttcagc atatatgtta ataacttttt 660
ctcctatttt ctcaaggttt tatgacttac ctagtggagc ctttatttac agaatgggcc 720
aggttttcca atacaaggct atcccagaca atgcttggac acgtggggct gaataaagcc 780
agctggaagg gactgcagag agaacagtcg agcagtgagg acactgatgc tgcatttgag 840
ttgaactcac agttattacc tcaggaaaat cggttatcat aacccccaga accagtggga 900
caaactgcct cctggaggtt tttagaaatg tgaaatgggg tcttgaggtg agagaactta 960
actcttgact gccaaggttt ccaagtgagt gatgccagcc agcattattt atttccaaga 1020
tttcctctgt tggatcattt gaacccactt gttaattgca agacccgaac atacagcaat 1080
atgaatttgg ctttcatgtg aaaccttgaa tatgcaaagc ccagcaggag agaatccgaa 1140
aggagtaaca aaggaagttt tgatatgtgc cacgactttt tcaaagcatc taatcttcaa 1200
aacgtgaaac ttgaattgtt cagcaacaat ctcttggaat ttaaccagtc tgatgcaaca 1260
atgtgtatct tgtaccttcc actaagttct ctctgagaaa atggaaatgt gaagtgccca 1320
gcctctgctg cctctggcaa gacaatgttt acaaatcaac tctgaaaata ttggttctaa 1380
attgccttgg agcatgattg tgaaggaacc actcaaacaa atttaaagat caaactttag 1440
actgcagctc tttccccctg gtttgccttt ttcttctttg gatgccacca aagcctccca 1500
tttgctatag tttttatttca tgcactggaa actgagcatt tatcgtagag taccgccaag 1560
ctttcactcc agtgccgttt ggcaatgcaa tttttttttag caattagttt ttaatttggg 1620
gtgggagggg aagaacacca atgtcctagc tgtattatga ttctgcagtg aagacattgc 1680
atgttgtttt cactactgta cacttgacct gcacatgcga gaaaaaggtg gaatgtttaa 1740
aacaccataa tcagctcagg gtatttgcca atctgaaata aaagtgggat gggagagtgt 1800
gtccttcaga tcaagggtac taaagtccct ttcgctgcag tgagtgagag gtatgttgtg 1860
tgtgaatgta cggatgtgtg tttgcgtgca tgtttgtgca tgtgtgactg tgcatgttat 1920
gtttctccat gtgggcaaag atttgaaatg taagctttta tttattattt tagaatgtga 1980
cataatgagc agccacactc gggggagggg aaggttggta ggtaagctgt aacagattgc 2040
tccagttgcc ttaaactatg cacatagcta agtgaccaaa cttcttgttt tgatttgaaa 2100
aaagtgcatt gtttttcttgt ccctcccttt gatgaaacgt tacccttga cgggcctttt 2160
gatgtgaaca gatgttttct aggacaaact ataaggacta attttaaact tcaaacattc 2220
cactttttgta atttgttttaa aattgttttaa tgtatagtaa gcacaactgt aatctagttt 2280
taagagaaac cggtgctttc ttttagttca tttgtatttc ccttgttact gtaaaagact 2340
gtttattaat tgtttacagt ttgttgcaac agccattttc ttgggagaaa gcttgagtgt 2400
aaagccattt gtaaaaggct ttgccatact cattttaata tgtgcctgtt gctgttaact 2460
tttgatgaat aaaaacctat cttttcataa aa 2492

<210> 49
<211> 902
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 2989375CB1

<400> 49
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aaggaagcaa ggctaatcat cagtatgtgc ttgttacaag agctatgatg aaggcactcc 120
ttcgagttta accaaatgag atcatctctg tcatgtgcct cacgcctcac agggactcca 180
tgtgtgaaga ttcccccttc actcaccaga tcatctccat ggcaacagct tgcagcctgc 240
tcttggagtg ctttgttttg gcagcttctc tgctagtttg tgtatggagt gaatggagga 300
ggtaaatcca cagattaaga atatgctgtc aggagtcagg cagccaaggt cagaagccag 360
ctctgcttct cagtgctttc tctttacaac acaggacttt gcaaggaaca tataattctg 420
tgactagcgc catttggaaa atgttgaaac tgaagtagag atgagagatc ttacgtctgc 480
ctacccagtg agatacgagg aaggtcaagg gaaaaaaaat tccaagctct tctttatctg 540
ctataggaaa tgaacattca attttttgca tgcaacgaca agaggtcaag gaccccagaa 600
gccagcccgc tacttccaag ttgagagccc ctggtcatac cctccagttg agctcagatt 660
tgtcacaaat ttacccctct cctttccttc cattccccat gacctgcaga gagagatgtc 720
agataccttc ctcttggcct cccatgggca tccataagaa acttacttga agcaagaagc 780
ccagtatagg tgtctgggca gttggacatt tcctctagcc agatctgtcc gaatagagcc 840
atctgggtac atgacgcaga gggcatttga taaataactg gaaaagtcaa taaatctttg 900
tc   902

<210> 50
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2989375CD1

<400> 50
Met Cys Leu Thr Pro His Arg Asp Ser Met Cys Glu Asp Ser Pro
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Phe Thr His Gln Ile Ile Ser Met Ala Thr Ala Cys Ser Leu Leu
                20   25   30
Leu Glu Cys Phe Val Leu Ala Ala Ser Leu Leu Val Cys Val Trp
                35   40   45
Ser Glu Trp Arg Arg
                50

<210> 51
<211> 618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 236359.2

<220>
<221> unsure
<222> 44, 57
<223> a, t, c, g, or other

<400> 51
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62

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tgaaagaaaa aagcatatct tcattgacat aacagaagtg agatggccca gtcttgatac  180
agatggtacc atgatatata tggagagtgg cattgtgaag ataacatctt tagatggtca  240
tgcatacctc tgcctgccca gatctcagca tgaatttaca gtacattttt tgtgtaaagt  300
tagccagaag tcagactcat ctgcagtgtt gtcagaaaca aataataaag ccccaaaaga  360
taaactagtt gaaaaaactg gcaaaatctg tatacgtgga aatttaccag gacagagact  420
gaagaataaa gaaaatgagt ttcattgcca gatcatgaaa tccaaagaaa ctttaaagaa  480
gatgagttgt gtaaatggaa ctgaagggag ggaagagctg ccttcgcctg gtacaaagca  540
cacatgtgta tacacatggg tcaagcagtg ctggtctgtg gctgcctgtc cagaggaatg  600
gaaatatcct ttgtctttt                                                618
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<210> 52
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 011112.1c

<400> 52
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atatgattca ttgtctaacc ccatcaaggg gttacatatt ttaaataaga cgtcatttct  180
cctcttcact ccagcatctc ctccttcaaa ggcatttttc accctcttga aattaatacg  240
ctctattcgc tcttttcacc taaaaaaagg tcaatcgtcg ctctgagaaa caacagtgag  300
atgcaaaata agggtaaaat ggcattgaaa tgaatccctt tgaaaaagta agcggtttgc  360
tttatcagtt aatggtctca tcagcgcttc agtttcctct tctgcaaaaa tcagtctgtt  420
gaactagagc atatcaaagg ttccttctag tgttttgatt ctaggacctc taaattcatg  480
caggctgcat aatgcaaatt taacctgatt aaagccttat ttctcat                 527
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<210> 53
<211> 899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198268.1

<400> 53
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cagatttggg attaacaaac ttccacttag acattctgcc tgactgacct caggcatttc   60
gcactctgaa tgtcaaaccc aactcattgt catctctgaa gctgctcact taattctcct  120
ctgtattctc tttaacaacc cagttgccca acccagaaac tgggagtcac gcagacctcc  180
tttctctctt actcccacac aatgagccat gaagtccagt ctttctatct aacatcact   240
gtcaaaccca cactgtattc catgcccagc gctgccacgt gaatgtactc tgctcacttc  300
cttcctggat tacccatagc cccacctcat cctcctaccc ttgctttcct ccctgaagtc  360
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tctccttagc ttcagctctg tgcccacgtg ccttggcttt ggatacaagg tactacagca  480
ctttgtccac tctccaggct tacctgtgtc attccacatg cacatcttag aaaatgccag  540
ccttagagaa ttctccctag ccccaaaatg tctttgccca gtgcaattcc ttcttcctgt  600
attacccctt tccctccttc acactatctg cctggctaat tcttatttat ccttagttca  660
agtatggcct tttctgggaa ggtgaccctc cttggccacc ccttgcatat actttgatgc  720
cctagggcac accccctttta tttccctcat agaaacagcc ttctgtaaat tgttccatga  780
caacctgtat ttcaatttgt aagaaatttg catgtactgt gagctcccca acgtcaggag  840
actgaccctt ttgatatcat tgctaagcct cattaaatga atgaatgaaa atgttaaaa   899
```

<210> 54
<211> 3575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978740.3

<400> 54
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gggcaggccc ggcagccgcc atggtggcca aggattaccc cttctacctc acggtcaaga 180
gagcgaactg cagcctggag ctacctccgg ccagcggtcc ggccaaggac gctgaggagc 240
ctagtaataa acgggtcaaa cccctttccc gagtcacgtc gctagcaaac ctcatcccgc 300
ccgtgaaggc cacgccatta aagcgcttca gtcaaaccct gcagcgctcc attagcttcc 360
gcagtgagag ccgccctgac atcctcgccc cccgaccctg gtccagaaat gccgcccct 420
cgagcacgaa acggagagat agcaagctgt ggagtgagac cttcgatgtg tgcgtcaatc 480
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aagaagactt gatagaagac ttgaaaattag caaaaaaggc ctatcatgac cccatgctga 600
aactctccat aatgacagaa caagagttga atcaaatttt tggaacactg gactctctaa 660
ttcctctaca tgaagagctc cttagtcagc ttcgagatgt taggaagcct gatggctcga 720
ctgaacatgt tggtcccatc ctcgtgggct ggctcccttg cctcagctcc tatgatagct 780
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gaagcacttt ttcatacttt tgtgaaagta tacatgttgg cccagtctct cgtatctgta 1860
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acatagattg tttgaagagt ccttcctctt gtgcttctgt accactttcc cagctcttag 2100
atgtggtagc taaagggcac ggaatttaga cggccttgta aatagggcat gaggaactca 2160
tctgtgtatt gggatggtat tagagagaga atcaggaaag accaactcat gaagtgaact 2220
tggtttgatc ttactcaact agaaagcttg aaaacatccc tggggattct gaaggcttaa 2280
ttttgcaaag gaggatgcat tgtctgaact ttgcaacttc atccagtgca gtttgatgc 2340
aagaatgtat taggacataa aatagaggct gaccttaaaa gggccaggac agaagcggct 2400
gccagctctg aatctttaac tgaaatgcac atggcaccag gaggtgtctc tcatagttgg 2460
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aagaaggccc tgtattcatt gtgtttcatc tgcctaggcc tactcattat tttagagaat 2580
gaatgaagca acaaggaaga gagaccatga ctctatcgat gacactgttt atagaaacac 2640
aggagaggaa gaatttggaa tgaaaagcac ttcgtcagaa ccttctgtgg gagccattga 2700
gagaaaagca tggtccagtg ccttctgaga aaggccagag ctttgggctt tcctgctctg 2760
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ctctttgtcc agccttgatt tacagtgcag ggtaaagtgc agaccttaaa aacagctaag 2940
tacctagaag agctccctgc aagtgtaaat attaaggatg acctgtgcaa aattataccc 3000
acaccagcac tagtggtaat tattctaaat tattgccaaa aagttttttt taatctgtct 3060
ttcaagttta cagaaaagaa agcagtaaat gcattgatgt cattttatta tgtacatata 3120
tcatgtgcat tcaagctgtg tgacaagata tatcaatata aaaacaaggt atatacttta 3180
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ttataggtct taaacatgat gaattttttc tattacaagt ttatttaaaa ctgctttctc 3300
aagtcgttat tgatacagca agtgaacctg ctgcagacag aagcagagga aagccaagaa 3360
cagcctttat tggtgaagaa aagaatgaat gattctttgt aggcgccatc agccactttt 3420
agaagccatc agccagtgtg ttgggaaaag aggtttgtca agtgttggcc tatgggaagg 3480
tggtcaatga atgtttttgat gaaatgaatg tttttgtata atggccttaa acttttctgg 3540
aagtatttca aataaattac attattaagt caaaa                            3575
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<210> 55
<211> 1025
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 400197.1

<220>
<221> unsure
<222> 574-662, 749-830
<223> a, t, c, g, or other

<400> 55
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aggatctacc acagcctgtt taaaatatga ccagaaatgt ggctgctgga gtagctagat 180
gaaatataga ccacactgat aaaaaaaaat cttactcttt ttcccttcct gttatttatt 240
gccaacaccc ttttcaagga tctgtccttt tggagaattt ttgtactttg tctccttcct 300
ttttctgttt ttctagcatg ttctcattta agaataagca aactatggcc tgcaagccaa 360
atctgaccta caacctgttt ttgtaaataa agctttattg taacacagcc atgcccattt 420
gtttacatat catctatggc tgctttcatg cctagaatgg cagagttgat ttgagtacag 480
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tgtatgtaaa tactacactg ttttataann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn actgtagttg 840
tcacagagac catattactc acagtgccta aaatatttac tcttttacat aaaaagtttg 900
ccgccttcta cttctcttac tatttctagc aaagtaccag actaatttct ccttcctctc 960
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<210> 56
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PA-0035 US

<223> Incyte ID No: 235687.5c

<220>
<221> unsure
<222> 5, 45, 49, 127, 133, 159
<223> a, t, c, g, or other

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atcatcagtc aattaagtta agtaatctag gtgagaataa acactatgag gttgcaaaga 240
aatgcgttga ggatttggca ctctacttaa aaccactaag tggaggtaaa ggtgtagcta 300
gcttgaacca gagtgcactg agccgtccaa tgcaaaggaa actggtgaca cttgtaaact 360
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<210> 57
<211> 2660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2797839CB1

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agcggggggcc aggccgaaag gcccggaagc agaagggtgc cgagacagaa ctcgtcagat 180
tcttgcctgc agtaagtgac gaaaattcca agaggctgtc tagtcgtgct cgaaagaggg 240
cagccaagag gagattgggc tctgttgaag cccctaagac aaataagtct cctgaggcca 300
aaccattgcc tggaaagcta ccaaaaggga tctctgcagg agctgtccag acagctggta 360
agaagggacc ccagtcccta tttaatgctc ctcgaggcaa gaagcgccca gcacctggca 420
gtgatgagga agaggaggag gaagactctg aagaagatgg tatggtgaac cacggggacc 480
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agaaggagtt gctcctgagt gctattgact ctgtcaatgc gacctccaag acaggaggct 1620

66

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agccaaaggt gactgggaag ctaaagcaac gatcacctaa attacagtcc tccaagaaag 2220
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gggccaaggg ggttgagaag cagcagttgc cagagcagcc tttttgagaaa gctgccttcc 2400
agaaacagaa tgatacccc aagggggcctc agcctcccac tgtgtctccc atccgttcca 2460
gccgcccccc accagcaaag aggaagaaat ctcagtccag gggcaacagc cagctgctgc 2520
tatcttagat ggttgaaaac tagacgggtg gctcactgcc attgtcacca ggttggaact 2580
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<210> 58
<211> 812
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2797839CD1

<400> 58

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                20                  25                  30
Phe Leu Pro Ala Val Ser Asp Glu Asn Ser Lys Arg Leu Ser Ser
                35                  40                  45
Arg Ala Arg Lys Arg Ala Ala Lys Arg Arg Leu Gly Ser Val Glu
                50                  55                  60
Ala Pro Lys Thr Asn Lys Ser Pro Glu Ala Lys Pro Leu Pro Gly
                65                  70                  75
Lys Leu Pro Lys Gly Ile Ser Ala Gly Ala Val Gln Thr Ala Gly
                80                  85                  90
Lys Lys Gly Pro Gln Ser Leu Phe Asn Ala Pro Arg Gly Lys Lys
                95                  100                 105
Arg Pro Ala Pro Gly Ser Asp Glu Glu Glu Glu Glu Glu Asp Ser
                110                 115                 120
Glu Glu Asp Gly Met Val Asn His Gly Asp Leu Trp Gly Ser Glu
                125                 130                 135
Asp Asp Ala Asp Thr Val Asp Asp Tyr Gly Ala Asp Ser Asn Ser
                140                 145                 150
Glu Asp Glu Glu Glu Gly Glu Ala Leu Leu Pro Ile Glu Arg Ala
                155                 160                 165
Ala Arg Lys Gln Lys Ala Arg Glu Ala Ala Ala Gly Ile Gln Trp
                170                 175                 180
Ser Glu Glu Glu Thr Glu Asp Glu Glu Glu Lys Glu Val Thr
                185                 190                 195
Pro Glu Ser Gly Pro Pro Lys Val Glu Glu Ala Asp Gly Gly Leu
```

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                      200                     205                     210
Gln Ile Asn Val Asp Glu Glu Pro Phe Val Leu Pro Pro Ala Gly
                      215                     220                     225
Glu Met Glu Gln Asp Ala Gln Ala Pro Asp Leu Gln Arg Val His
                      230                     235                     240
Lys Arg Ile Gln Asp Ile Val Gly Ile Leu Arg Asp Phe Gly Ala
                      245                     250                     255
Gln Arg Glu Glu Gly Arg Ser Arg Ser Glu Tyr Leu Asn Arg Leu
                      260                     265                     270
Lys Lys Asp Leu Ala Ile Tyr Tyr Ser Tyr Gly Asp Phe Leu Leu
                      275                     280                     285
Gly Lys Leu Met Asp Leu Phe Pro Leu Ser Glu Leu Val Glu Phe
                      290                     295                     300
Leu Glu Ala Asn Glu Val Pro Arg Pro Val Thr Leu Arg Thr Asn
                      305                     310                     315
Thr Leu Lys Thr Arg Arg Arg Asp Leu Ala Gln Ala Leu Ile Asn
                      320                     325                     330
Arg Gly Val Asn Leu Asp Pro Leu Gly Lys Trp Ser Lys Thr Gly
                      335                     340                     345
Leu Val Val Tyr Asp Ser Ser Val Pro Ile Gly Ala Thr Pro Glu
                      350                     355                     360
Tyr Leu Ala Gly His Tyr Met Leu Gln Gly Ala Ser Ser Met Leu
                      365                     370                     375
Pro Val Met Ala Leu Ala Pro Gln Glu His Glu Arg Ile Leu Asp
                      380                     385                     390
Met Cys Cys Ala Pro Gly Gly Lys Thr Ser Tyr Met Ala Gln Leu
                      395                     400                     405
Met Lys Asn Thr Gly Val Ile Leu Ala Asn Asp Ala Asn Ala Glu
                      410                     415                     420
Arg Leu Lys Ser Val Val Gly Asn Leu His Arg Leu Gly Val Thr
                      425                     430                     435
Asn Thr Ile Ile Ser His Tyr Asp Gly Arg Gln Phe Pro Lys Val
                      440                     445                     450
Val Gly Gly Phe Asp Arg Val Leu Leu Asp Ala Pro Cys Ser Gly
                      455                     460                     465
Thr Gly Val Ile Ser Lys Asp Pro Ala Val Lys Thr Asn Lys Asp
                      470                     475                     480
Glu Lys Asp Ile Leu Arg Cys Ala His Leu Gln Lys Glu Leu Leu
                      485                     490                     495
Leu Ser Ala Ile Asp Ser Val Asn Ala Thr Ser Lys Thr Gly Gly
                      500                     505                     510
Tyr Leu Val Tyr Cys Thr Cys Ser Ile Thr Val Glu Glu Asn Glu
                      515                     520                     525
Trp Val Val Asp Tyr Ala Leu Lys Lys Arg Asn Val Arg Leu Val
                      530                     535                     540
Pro Thr Gly Leu Asp Phe Gly Gln Glu Gly Phe Thr Arg Phe Arg
                      545                     550                     555
Glu Arg Arg Phe His Pro Ser Leu Arg Ser Thr Arg Arg Phe Tyr
                      560                     565                     570
Pro His Thr His Asn Met Asp Gly Phe Phe Ile Ala Lys Phe Lys
                      575                     580                     585
Lys Phe Ser Asn Ser Ile Pro Gln Ser Gln Thr Gly Asn Ser Glu
                      590                     595                     600
Thr Ala Thr Pro Thr Asn Val Asp Leu Pro Gln Val Ile Pro Lys
                      605                     610                     615
Ser Glu Asn Ser Ser Gln Pro Ala Lys Lys Ala Lys Gly Ala Ala
```

68

```
                   620                      625                    630
Lys Thr Lys Gln Gln Leu Gln Lys Gln Gln His Pro Lys Lys Ala
                   635                      640                    645
Ser Phe Gln Lys Leu Asn Gly Ile Ser Lys Gly Ala Asp Ser Glu
                   650                      655                    660
Leu Ser Thr Val Pro Ser Val Thr Lys Thr Gln Ala Ser Ser Ser
                   665                      670                    675
Phe Gln Asp Ser Ser Gln Pro Ala Gly Lys Ala Glu Gly Ile Arg
                   680                      685                    690
Glu Pro Lys Val Thr Gly Lys Leu Lys Gln Arg Ser Pro Lys Leu
                   695                      700                    705
Gln Ser Ser Lys Lys Val Ala Phe Leu Arg Gln Asn Ala Pro Pro
                   710                      715                    720
Lys Gly Thr Asp Thr Gln Thr Pro Ala Val Leu Ser Pro Ser Lys
                   725                      730                    735
Thr Gln Ala Thr Leu Lys Pro Lys Asp His His Gln Pro Leu Gly
                   740                      745                    750
Arg Ala Lys Gly Val Glu Lys Gln Gln Leu Pro Glu Gln Pro Phe
                   755                      760                    765
Glu Lys Ala Ala Phe Gln Lys Gln Asn Asp Thr Pro Lys Gly Pro
                   770                      775                    780
Gln Pro Pro Thr Val Ser Pro Ile Arg Ser Ser Arg Pro Pro Pro
                   785                      790                    795
Ala Lys Arg Lys Lys Ser Gln Ser Arg Gly Asn Ser Gln Leu Leu
                   800                      805                    810
Leu Ser
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<210> 59
<211> 907
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978690.6

<400> 59
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acaacagctg acaataaggt cattgatcgc agaagaatac gcagcctcta cagcgaaccc 180
ttcaaggaac ccccaaaggt ggaaaaacct agtgttcaga gttccaaacc aaaaaagacc 240
tcagcgagcc ataagcccac gaggaaggcc aaagacaagc aggcggtgtc aggccaggct 300
gccaagaaaa agagcgcgga gggcccgagt accaccaagc cagacgacaa ggagcaaagc 360
aaagagatga caataaact ggctgaggcg aaagagtaaa tttccctgca ctttcctttt 420
actcttctct ctctctccct cccccaact ttttgtttt agagcaacaa atcataaaag 480
gccacagggt taattagagg cttctcatct gccttggtcc tgagtgttcc aggagctctt 540
tggtttggct tcttttgatg gaagaatcct gcttcacaga ctgagtggca ggcctcctcc 600
tgagggcagc ccctggagca ccaggaagcg ttgccgctgg ctgtgccctc ccctggcact 660
ctgactgcat gctgatgagc aaggcaggca ggtctgagag gcgaaacgaa tctcccggca 720
gtgcttggaa gtgtctgtgg ggtctcctcc tcccagatcc ccaagatctg tgtcactggt 780
cgattttgaa ctttaggtac atgtgttctt ttcaaaaatt cagagaatcg tcatgtgcca 840
cagaagctca gcctgggctt cagcaattga caaaatttga agaaatatta aacaaaaata 900
acaaaaa                                                        907
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<210> 60
<211> 2868

69

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 348072.5

<220>
<221> unsure
<222> 2851
<223> a, t, c, g, or other

<400> 60
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ttttgctcac aatgttgtca ccatgagagc cgtcaaccgt gcagacacgg ccaaggaggt 240
ttcctttgat gtggagctgc ccaagacggc cttcatcacc aacttcacct tgaccatcga 300
cggtgttacc taccctggga atgtcaagga gaaggaagtt gccaagaagc agtatgaaaa 360
ggctgtgtcc cagggcaaga cggccggctt ggtcaaggcc tctgggagga agttggagaa 420
gttcacagtc tcggtcaacg tggctgcagg cagcaaagtc accttcgagc taacctacga 480
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gtgggagggg ctgggaaaat aaagtccaag gtcgagacca gacagctgcc agcctctaca 2820
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<210> 61
<211> 1952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 085596CB1

<400> 61
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aaaaggcgac gggatggcta ccttttccaa ttgctgcgga ttgctgatgc ccacttggac 180
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gcagatttgt tctatgatgt agaagccttg gacttggaaa gcccgaaaaa ccttgtcata 720
aactgtgaag tcttcgaccc tcaggaacat gagaacatca atggtgtacc gcctcatttg 780
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cctccagatg aaagagatca ctcacatgga cccccacttc cacaaggccc tcctccacta 960
ttgcccatgt cctgctcaag ttgtcaacat gccactttg gcacaaatgg ggcccaaaga 1020
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catccccacg gacaccatcc ccatgcacac catcctcatg aacatgatac ccatagacag 1140
catccccatg gacaccaccc ccatggacac catcctcatg gacaccaccc ccatggacac 1200
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<210> 62
<211> 525
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 085596CD1

<400> 62
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                20                  25                  30
Ala Glu Lys Ala Leu Asp Leu Ile Asn Lys Arg Arg Arg Asp Gly
                35                  40                  45
Tyr Leu Phe Gln Leu Leu Arg Ile Ala Asp Ala His Leu Asp Arg
                50                  55                  60
Val Glu Asn Thr Thr Val Tyr Tyr Leu Val Leu Asp Val Gln Glu
                65                  70                  75
Ser Asp Cys Ser Val Leu Ser Arg Lys Tyr Trp Asn Asp Cys Glu
                80                  85                  90
Pro Pro Asp Ser Arg Arg Pro Ser Glu Ile Val Ile Gly Gln Cys
                95                  100                 105
Lys Val Ile Ala Thr Arg His Ser His Glu Ser Gln Asp Leu Arg
                110                 115                 120
Val Ile Asp Phe Asn Cys Thr Thr Ser Ser Val Ser Ser Ala Leu
                125                 130                 135
Ala Asn Thr Lys Asp Ser Pro Val Leu Ile Asp Phe Phe Glu Asp
                140                 145                 150
Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys Ala Leu Glu Lys Tyr
                155                 160                 165
Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg Val Asp Arg Thr
                170                 175                 180
Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Gly Tyr Phe
                185                 190                 195
Val Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe Pro Arg
                200                 205                 210
His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr Asp
                215                 220                 225
Val Glu Ala Leu Asp Leu Glu Ser Pro Lys Asn Leu Val Ile Asn
                230                 235                 240
Cys Glu Val Phe Asp Pro Gln Glu His Glu Asn Ile Asn Gly Val
                245                 250                 255
Pro Pro His Leu Gly His Pro Phe His Trp Gly Gly His Glu Arg
                260                 265                 270
Ser Ser Thr Thr Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp
                275                 280                 285
His His His Pro His Lys Pro His Glu His Gly Pro Pro Pro Pro
                290                 295                 300
Pro Asp Glu Arg Asp His Ser His Gly Pro Pro Leu Pro Gln Gly
                305                 310                 315
Pro Pro Pro Leu Leu Pro Met Ser Cys Ser Ser Cys Gln His Ala
                320                 325                 330
Thr Phe Gly Thr Asn Gly Ala Gln Arg Arg Ser His Asn Asn Asn
                335                 340                 345
Ser Ser Asp Leu His Pro His Lys His His Ser His Glu Gln His
                350                 355                 360
Pro His Gly His His Pro His Ala His His Pro His Glu His Asp
                365                 370                 375
Thr His Arg Gln His Pro His Gly His His Pro His Gly His His
                380                 385                 390
```

72

```
Pro His Gly His His Pro His Gly His His Pro His Gly His His
        395             400             405
Pro His Cys His Asp Phe Gln Asp Tyr Gly Pro Cys Asp Pro Pro
        410             415             420
Pro His Asn Gln Gly His Cys Cys His Gly His Gly Pro Pro Pro
        425             430             435
Gly His Leu Arg Arg Arg Gly Pro Gly Lys Gly Pro Cys Pro Phe
        440             445             450
His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu Pro Pro Leu Arg
        455             460             465
Lys Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe Pro Ser Phe
        470             475             480
Pro Leu Pro His His Lys His Pro Leu Lys Pro Asp Ile Gln Pro
        485             490             495
Phe Pro Gln Ser Val Ser Glu Ser Cys Pro Gly Lys Phe Lys Ser
        500             505             510
Gly Phe Pro Gln Val Ser Met Phe Phe Thr His Thr Phe Pro Lys
        515             520             525
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<210> 63
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 103917CB1

<400> 63
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gcctcacctg cagctgcgcc tccttgcacc tgcgcctgtg cttttctcc  cagcactgcg   60
gacgcgactc gagggtgacg ctcgctccgc tcgtcccgct cgtcatggcc tacccgggat  120
acggaggagg gtttggaaat tttagcattc aggtgccagg aatgcagatg ggacagccag  180
tgccagaaac aggcccagct atactcctcg atggatactc tgggccagca tattcagaca  240
cttattcctc agctggtgac tccgtgtata cttacttcag tgctgttgct ggacaggatg  300
gtgaagtgga tgctgaagaa cttcagagat gtttgacaca gtctggaatt aatggaactt  360
actctccctt cagtttggaa acctgcagaa ttatgattgc catgttggat agagatcaca  420
caggaaaaat gggatttaat gcattcaaag agctatgggc agctcttaat gcctggaagg  480
aaaacttcat gactgttgat caagatggaa gtggcacagt agaacatcat gagttgcgtc  540
aagccattgg tcttatgggt tataggttga gtcctcaaac attaactact attgttaaac  600
gttatagcaa gaatggcaga attttctttg atgattatgt tgcttgctgt gtgaagcttc  660
gagcattgac agatttcttt aggaaaagag accacttgca acaagggtct gcgaatttca  720
tatatgacga ttttttgcag ggcactatgg caatttgaat gcttagaatt ttaaacctga  780
agagacactg tgaattcttt tgtttggaag aagtgaactg gactacttta aaactttaa   840
gggtttttcta tgttcttcct acctgttaaa cctcttccct ttctgtgtgt ttttatttta  900
gcagatagtt caaagcaata aaagatttct tttttaattt gaggtattac tgcttttgga  960
aaagttattt tataaatatg tgcatattgt cataaaatat tgtatgatta attgatttaa 1020
ataatgctta gccttaattt tagataatgt aaatttagag gaatgtactt tacaagatag 1080
attgtataag aagccaaata atgaaagcct agaaaaaact aatttatact tatctgaagg 1140
ttacaaatta gactttttaaa ttttctttgt agttggtggt gtttgagggt tggctagaaa 1200
tgaaagcctg gattttgtgc catgtttgta atatagtttg ttccttgatc aaataatcag 1260
agaaaagaaa cttaaagatc tttgtctgtg aagaagaaaa ttatctccct agttcaatct 1320
gtagtgaaat aagactacag aaggcattgt tttttccttt tttattttt  gtattatata 1380
ttttctcttaa atatgtttta ttgtcttctc taagcaaaaa gttcttaata aacatagtat 1440
ttctctctgc gtcctatttc attagtgaag acatagttca cctaaaatgg catcctgctc 1500
tgaatctaga ctttttagaa atggcatatg tttttgatga tatgtcaaca ttcaaaattg 1560
tcctaattaa attgttgttt aaatgtaatg tcaactcttt ataaacttaa aaataaacaa 1620
```

73

gtaattaacc actct   1635

<210> 64
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 103917CD1

<400> 64
Met Ala Tyr Pro Gly Tyr Gly Gly Gly Phe Gly Asn Phe Ser Ile
1   5   10   15
Gln Val Pro Gly Met Gln Met Gly Gln Pro Val Pro Glu Thr Gly
                20   25   30
Pro Ala Ile Leu Leu Asp Gly Tyr Ser Gly Pro Ala Tyr Ser Asp
                35   40   45
Thr Tyr Ser Ser Ala Gly Asp Ser Val Tyr Thr Tyr Phe Ser Ala
                50   55   60
Val Ala Gly Gln Asp Gly Glu Val Asp Ala Glu Glu Leu Gln Arg
                65   70   75
Cys Leu Thr Gln Ser Gly Ile Asn Gly Thr Tyr Ser Pro Phe Ser
                80   85   90
Leu Glu Thr Cys Arg Ile Met Ile Ala Met Leu Asp Arg Asp His
                95   100   105
Thr Gly Lys Met Gly Phe Asn Ala Phe Lys Glu Leu Trp Ala Ala
                110   115   120
Leu Asn Ala Trp Lys Glu Asn Phe Met Thr Val Asp Gln Asp Gly
                125   130   135
Ser Gly Thr Val Glu His His Glu Leu Arg Gln Ala Ile Gly Leu
                140   145   150
Met Gly Tyr Arg Leu Ser Pro Gln Thr Leu Thr Thr Ile Val Lys
                155   160   165
Arg Tyr Ser Lys Asn Gly Arg Ile Phe Phe Asp Asp Tyr Val Ala
                170   175   180
Cys Cys Val Lys Leu Arg Ala Leu Thr Asp Phe Phe Arg Lys Arg
                185   190   195
Asp His Leu Gln Gln Gly Ser Ala Asn Phe Ile Tyr Asp Asp Phe
                200   205   210
Leu Gln Gly Thr Met Ala Ile
                215

<210> 65
<211> 2977
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3603037CB1

<400> 65
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gcaactcctg gcttcccagc agccggaaca cagacaggag agagtcagtg gcaaatagac 120
attttctta tttcttaaaa aacagcaact tgtttgctac ttttatttct gttgattttt 180
ttttcttggt gtgtgtggtg gttgttttta agtgtggagg gcaaaaggag ataccatccc 240

74

```
aggctcagtc caacccctct ccaaaacggc ttttctgaca ctccaggtag cgagggagtt 300
gggtctccag gttgtgcgag gagcaaatga tgaccgccaa ggccgtagac aaaatcccag 360
taactctcag tggttttgtg caccagctgt ctgacaacat ctacccggtg gaggacctcg 420
ccgccacgtc ggtgaccatc tttcccaatg ccgaactggg aggccccttt gaccagatga 480
acggagtggc cggagatggc atgatcaaca ttgacatgac tggagagaag aggtcgttgg 540
atctcccata tcccagcagc tttgctcccg tctctgcacc tagaaaccag accttcactt 600
acatgggcaa gttctccatt gaccctcagt accctggtgc cagctgctac ccagaaggca 660
taatcaatat tgtgagtgca ggcatcttgc aaggggtcac ttccccagct tcaaccacag 720
cctcatccag cgtcacctct gcctccccca acccactggc cacaggaccc ctgggtgtgt 780
gcaccatgtc ccagacccag cctgacctgg accacctgta ctctccgcca ccgcctcctc 840
ctccttattc tggctgtgca ggagacctct accaggaccc ttctgcgttc ctgtcagcag 900
ccaccacctc cacctcttcc tctctggcct acccaccacc tccttcctat ccatcccca 960
agccagccac ggacccaggt ctcttcccaa tgatcccaga ctatcctgga ttctttccat 1020
ctcagtgcca gagagaccta catggtacag ctggcccaga ccgtaagccc tttccctgcc 1080
cactggacac cctgcgggtg ccccctccac tcactccact ctctacaatc cgtaacttta 1140
ccctggggggg ccccagtgct ggggtgaccg gaccaggggc cagtggaggc agcgagggac 1200
cccggctgcc tggtagcagc tcagcagcag cagcagccgc cgccgccgcc gcctataacc 1260
cacaccacct gccactgcgg cccattctga ggcctcgcaa gtaccccaac agacccagca 1320
agacgccggt gcacgagagg ccctacccgt gcccagcaga aggctgcgac cggcggttct 1380
cccgctctga cgagctgaca cggcacatcc gaatccacac tgggcataag cccttccagt 1440
gtcggatctg catgcgcaac ttcagccgca gtgaccacct caccacccat atccgcaccc 1500
acaccggtga gaagcccttc gcctgtgact actgtggccg aaagtttgcc cggagtgatg 1560
agaggaagcg ccacaccaag atccacctga gacagaaaga gcggaaaagc agtgcccct 1620
ctgcatcggt gccagccccc tctacagcct cctgctctgg gggcgtgcaa gcctgggggt 1680
accctgtgca gcagtaacag cagcagtctt ggcggagggc cgctcgcccc ttgctcctct 1740
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ggccctttgt ccactggagc tgcacaacaa acactaccac cctttcctgt ccctctctcc 1860
ctttgttggg caaagggctt tggtggagct agcactgccc cctttccacc tagaagcagg 1920
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caaaggggag gctcagaagg aggtggtgtg gggacccctg gccaagaggg ctgaggtctg 2040
accctgcttt aaagggttgt ttgactaggt tttgctaccc cacttcccct tattttgacc 2100
catcacaggt ttttgaccct ggatgtcaga gttgatctaa gacgttttct acaataggtt 2160
gggagatgct gatcccttca agtggggaca gcaaaaagac aagcaaaact gatgtgcact 2220
ttatggcttg ggactgattt gggggacatt gtacagtgag tgaagtatag cctttatgcc 2280
acactctgtg gccctaaaat ggtgaatcag agcatatcta gttgtctcaa cccttgaagc 2340
aatatgtatt ataaactcag agaacagaag tgcaatgtga tgggaggaac atagcaatat 2400
ctgctccttt tcgagttgtt tgagaaatgt aggctatttt ttcagtgtat atccactcag 2460
attttgtgta tttttgatgt acactgttct ctaaattctg aatctttggg aaaaaatgta 2520
aagcatttat gatctcagag gttaacttat ttaagggga tgtacatata ttctctgaaa 2580
ctaggatgca tgcaattgtg ttggaagtgt ccttggtgcc ttgtgtgatg tagacaatgt 2640
tacaaggtct gcatgtaaat gggttgcctt attatggaga aaaaaatcac tccctgagtt 2700
tagtatggct gtatatttct gcctattaat atttggaatt tttttagaa agtatatttt 2760
tgtatgcttt gttttgtgac ttaaaagtgt tacctttgta gtcaaatttc agataagaat 2820
gtacataatg ttaccggagc tgatttgttt ggtcattagc tcttaatagt tgtgaaaaaa 2880
taaatctatt ctaacgcaaa accactaact gaagttcaga taatggatgg tttgtgacta 2940
tagtgtaaat aaatactttt caacaataaa aaaaaaa                              2977
```

<210> 66
<211> 456
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3603037CD1

75

<400> 66

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Met Met Thr Ala Lys Ala Val Asp Lys Ile Pro Val Thr Leu Ser
1               5                   10                  15
Gly Phe Val His Gln Leu Ser Asp Asn Ile Tyr Pro Val Glu Asp
                20                  25                  30
Leu Ala Ala Thr Ser Val Thr Ile Phe Pro Asn Ala Glu Leu Gly
                35                  40                  45
Gly Pro Phe Asp Gln Met Asn Gly Val Ala Gly Asp Gly Met Ile
                50                  55                  60
Asn Ile Asp Met Thr Gly Glu Lys Arg Ser Leu Asp Leu Pro Tyr
                65                  70                  75
Pro Ser Ser Phe Ala Pro Val Ser Ala Pro Arg Asn Gln Thr Phe
                80                  85                  90
Thr Tyr Met Gly Lys Phe Ser Ile Asp Pro Gln Tyr Pro Gly Ala
                95                  100                 105
Ser Cys Tyr Pro Glu Gly Ile Ile Asn Ile Val Ser Ala Gly Ile
                110                 115                 120
Leu Gln Gly Val Thr Ser Pro Ala Ser Thr Thr Ala Ser Ser Ser
                125                 130                 135
Val Thr Ser Ala Ser Pro Asn Pro Leu Ala Thr Gly Pro Leu Gly
                140                 145                 150
Val Cys Thr Met Ser Gln Thr Gln Pro Asp Leu Asp His Leu Tyr
                155                 160                 165
Ser Pro Pro Pro Pro Pro Pro Pro Tyr Ser Gly Cys Ala Gly Asp
                170                 175                 180
Leu Tyr Gln Asp Pro Ser Ala Phe Leu Ser Ala Ala Thr Thr Ser
                185                 190                 195
Thr Ser Ser Ser Leu Ala Tyr Pro Pro Pro Pro Ser Tyr Pro Ser
                200                 205                 210
Pro Lys Pro Ala Thr Asp Pro Gly Leu Phe Pro Met Ile Pro Asp
                215                 220                 225
Tyr Pro Gly Phe Phe Pro Ser Gln Cys Gln Arg Asp Leu His Gly
                230                 235                 240
Thr Ala Gly Pro Asp Arg Lys Pro Phe Pro Cys Pro Leu Asp Thr
                245                 250                 255
Leu Arg Val Pro Pro Pro Leu Thr Pro Leu Ser Thr Ile Arg Asn
                260                 265                 270
Phe Thr Leu Gly Gly Pro Ser Ala Gly Val Thr Gly Pro Gly Ala
                275                 280                 285
Ser Gly Gly Ser Glu Gly Pro Arg Leu Pro Gly Ser Ser Ser Ala
                290                 295                 300
Ala Ala Ala Ala Ala Ala Ala Ala Ala Tyr Asn Pro His His Leu
                305                 310                 315
Pro Leu Arg Pro Ile Leu Arg Pro Arg Lys Tyr Pro Asn Arg Pro
                320                 325                 330
Ser Lys Thr Pro Val His Glu Arg Pro Tyr Pro Cys Pro Ala Glu
                335                 340                 345
Gly Cys Asp Arg Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His
                350                 355                 360
Ile Arg Ile His Thr Gly His Lys Pro Phe Gln Cys Arg Ile Cys
                365                 370                 375
Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr Thr His Ile Arg
                380                 385                 390
Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Tyr Cys Gly Arg
                395                 400                 405
Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys Ile His
```

76

```
                        410                 415                 420
Leu Arg Gln Lys Glu Arg Lys Ser Ser Ala Pro Ser Ala Ser Val
                        425                 430                 435
Pro Ala Pro Ser Thr Ala Ser Cys Ser Gly Gly Val Gln Ala Trp
                        440                 445                 450
Gly Tyr Pro Val Gln Gln
                        455
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<210> 67
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088564CB1

<400> 67
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gcactcccaa agaactgggt actcaacact gagcagatct gttctttgag ctaaaaacca 60
tgtgctgtac caagagtttg ctcctggctg ctttgatgtc agtgctgcta ctccacctct 120
gcggcgaatc agaagcagca agcaactttg actgctgtct tggatacaca gaccgtattc 180
ttcatcctaa atttattgtg ggcttcacac ggcagctggc caatgaaggc tgtgacatca 240
atgctatcat ctttcacaca aagaaaaagt tgtctgtgtg cgcaaatcca aaacagactt 300
gggtgaaata tattgtgcgt ctcctcagta aaaaagtcaa gaacatgtaa aaactgtggc 360
ttttctggaa tggaattgga catagcccaa gaacagaaag aaccttgctg gggttggagg 420
tttcacttgc acatcatgga gggtttagtg cttatctaat ttgtgcctca ctggacttgt 480
ccaattaatg aagttgattc atattgcatc atagtttgct ttgtttaagc atcacattaa 540
agttaaactg tattttatgt tatttatagc tgtaggtttt ctgtgtttag ctatttaata 600
ctaattttcc ataagctatt ttggtttagt gcaaagtata aaattatatt tggggggggaa 660
taagattata tggactttct tgcaagcaac aagctatttt ttaaaaaaaa actatttaac 720
attcttttgt ttatattgtt ttgtctccta aattgttgta attgcattat aaaataagaa 780
aaatattaat aagacaaata ttgaaaataa agaaacaaaa agtt            824
```

<210> 68
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088564CD1

<400> 68
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Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val
 1               5                  10                  15
Leu Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe
                20                  25                  30
Asp Cys Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe
                35                  40                  45
Ile Val Gly Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile
                50                  55                  60
Asn Ala Ile Ile Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala
                65                  70                  75
Asn Pro Lys Gln Thr Trp Val Lys Tyr Ile Val Arg Leu Leu Ser
                80                  85                  90
Lys Lys Val Lys Asn Met
                95
```

PA-0035 US

<210> 69
<211> 1087
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 040429.1

<400> 69

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ctcccaagca attggatttc tgctcggatt catgtctata cccatgactg ttggcccacc 60
cattgcaggg ttacttcgtg acaaactggg ctcctatgat gtggcattct acctcgctgg 120
agtccctccc cttattggag gtgctgtgct ttgttttatc ccgtggatcc atagtaagaa 180
gcaaagagag atcagtaaaa ccactggaaa agaaaagatg gagaaaatgt tggaaaacca 240
gaactctctg ctgtcaagtt catctggaat gttcaagaaa gaatctgact ctattattta 300
atatcttaca tacctccacc agactggact tgctttttga attttaagca agtttccttt 360
ccttttatac aaattgcaaa tttcatattt ttttaatcac atcctaggaa tagcacaata 420
attgggaaat agaaccctta tcactagaag aaccattttc tgccactaaa tatctctgat 480
gtttccatga gtctgagggc agagactctg gtatatgaaa acatgtctga aagtcacata 540
ttgtgaaaat ttgaagctat ctcagtaaaa agcagctttg gaaactgtga atgatcttta 600
gcttgtacaa atgtttaaaa atacctcagg ctatactgaa agggttgcag tttggttagg 660
agtggaaata ttttgtttgt taatgatgtc ttcagttctg gtacctctgt tttactttct 720
tatgctcttt ggaaactttt tgcaaaattt aagcctgggt tctagataat accagatcta 780
cctaaacctc aagtctatgt taaagttgat ttcctgctgt taaataagct atgatattaa 840
gatattctga cttgctccag tgtcaaggga ccttctggga gcaggtgcta acatagtgtt 900
cagaatcaat atgtgagatg aaaaggatcc cctccaggag gatcctgagc tgttcagaaa 960
tcatttaagt ttacagcgtt gttccctttg cgtttgcagt gcgttttact caagtagcca 1020
gaaacacccc acgtttctga atttgtttaa actgtaacaa taaagtaaaa tagaatgcat 1080
gaaagat                                                          1087
```

<210> 70
<211> 5144
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 407096.2

<220>
<221> unsure
<222> 4537, 4540, 4590, 5133
<223> a, t, c, g, or other

<400> 70

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tctgactctg gcagttagcc cgcccgctcg gcgcagggcg tggcttctcg tagccattag 60
gaaacagcaa ccctttcacc tcagttttct tcactccggc atttgcagca gagcgaaagg 120
tggtggagtc ctgaaggagg gcctgatgtc ttcatcattc tcaaattctt gtaagctctg 180
cgtcgggtga aaccagacaa agccgcgagc ccagggatgg gagcacgcgg gggacggcct 240
gccggcgggg acgacagcat tgcgcctggg tgcagcagtg tgcgtctcgg ggaagggaag 300
atatttaag gcgtgtctga gcagacgggg aggcttttcc aaacccaggc agcttcgtgg 360
cgtgtgcggt ttcgacccgg tcacacaaag cttcagcatg tcatgtgagg acggtcgggc 420
cctggaagga acgctctcgg aattggccgc ggaaaccgat ctgcccgttg tgtttgtgaa 480
acagagaaag ataggcggcc atggtccaac cttgaaggct tatcaggagg gcagacttca 540
aaagctacta aaaatgaacg gccctgaaga tcttcccaag tcctatgact atgaccttat 600
catcattgga ggtggctcag gaggtctggc agctgctaag gaggcagccc aatatggcaa 660
```

78

```
gaaggtgatg gtcctggact ttgtcactcc cacccctctt ggaactagat ggggtctcgg 720
aggaacatgt gtgaatgtgg gttgcatacc taaaaaactg atgcatcaag cagctttgtt 780
aggacaagcc ctgcaagact ctcgaaatta tggatggaaa gtcgaggaga cagttaagca 840
tgattgggac agaatgatag aagctgtaca gaatcacatt ggctctttga attggggcta 900
ccgagtagct ctgcgggaga aaaaagtcgt ctatgagaat gcttatgggc aatttattgg 960
tcctcacagg attaaggcaa caaataataa aggcaaagaa aaaatttatt cagcagagag 1020
atttctcatt gccactggtg aaagaccacg ttacttgggg catccctggt gacaaagaat 1080
actgcatcag cagtgatgat cttttctcct tgccttactg cccgggtaag accctggttg 1140
ttggagcatc ctatgtcgct ttggagtgcg ctggatttct tgctggtatt ggtttagacg 1200
tcactgttat ggttaggtcc attcttctta gaggatttga ccaggacatg gccaacaaaa 1260
ttggtgaaca catggaagaa catggcatca agtttataag acagttcgta ccaattaaag 1320
ttgaacaaat tgaagcaggg acaccaggcc gactcagagt agtagctcag tccaccaata 1380
gtgaggaaat cattgaagga gaatataata cggtgatgct ggcaatagga agagatgctt 1440
gcacaagaaa aattggctta gaaaccgtag gggtgaagat aaatgaaaag actggaaaaa 1500
tacctgtcac agatgaagaa cagaccaatg tgccttacat ctatgccatt ggcgatatat 1560
tggaggataa ggtggagctc accccagttg caatccaggc aggaagattg ctgggctcag 1620
aggctctatg caggttccac tgtcaagtgt gactatgaaa atgttccaac cactgtattt 1680
actccttggg aatatggtgc ttgtggcctt tctgaggaga aagctgtgga gaagtttggg 1740
gaagaaaata ttgaggttta ccatagttac ttttggccat tggaatggac gattccgtca 1800
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ctcaaatgtg gactgaccaa aaagcagctg gacagcacaa ttggaatcca ccctgtctgt 1980
gcagaggtat tcacaacatt gtctgtgacc aagcgctctg gggcaagcat cctccaggct 2040
ggctgctgag gttaagcccc agtgtggatg ctgttgccaa gactgcaaac cactggctcg 2100
tttccgtgcc caaatccaag gcgaagtttt ctagagggtt cttgggctct tggcacctgc 2160
gtgtcctgtg cttaccaccg cccaaggccc ccttggatct cttggatagg agttggtgaa 2220
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gcatcgaagg gatgcatcca tgaagtcacc agtctcaagc ccatgtggta ggcggtgatg 2340
gaacaactgt caaatcagtt ttagcatgac ctttccttgt ggattttctt attctcgttg 2400
tcaagttttc tagggttgaa ttttttttctt ttttctccat ggtgttaatg atattagaga 2460
tgaaaaacgt tagcagttga tttttgtcca aaagcaagtc atggctagag tatccatgca 2520
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79

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<211> 2752
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<213> Homo sapiens

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<223> Incyte ID No: 209265.54

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 701484CB1

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<211> 641
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 701484CD1

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                35                  40                  45
Phe Thr Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln
                50                  55                   60
Val Ala Met Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu
                65                  70                  75
Ile Gly Arg Lys Phe Asn Asp Pro Val Val Gln Ala Asp Met Lys
                80                  85                  90
Leu Trp Pro Phe Gln Val Ile Asn Glu Gly Gly Lys Pro Lys Val
                95                  100                 105
Leu Val Ser Tyr Lys Gly Glu Asn Lys Ala Phe Tyr Pro Glu Glu
                110                 115                 120
Ile Ser Ser Met Val Leu Thr Lys Leu Lys Glu Thr Ala Glu Ala
                125                 130                 135
Phe Leu Gly His Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala
                140                 145                 150
Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val
                155                 160                 165
Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
                170                 175                 180
Ala Ala Ile Ala Tyr Gly Leu Asp Lys Gly Gly Gln Gly Glu Arg
                185                 190                 195
His Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
                200                 205                 210
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82

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Ile Leu Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala
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Gly Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val
             230                 235                 240
Ser His Phe Val Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile
             245                 250                 255
Ser Gln Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu
             260                 265                 270
Arg Ala Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Asn Leu Glu
             275                 280                 285
Ile Asp Ser Leu Tyr Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr
             290                 295                 300
Arg Ala Arg Phe Glu Glu Leu Cys Ala Asp Leu Phe Arg Gly Thr
             305                 310                 315
Leu Glu Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Met Asp Lys
             320                 325                 330
Ala Lys Ile His Asp Ile Val Leu Val Gly Gly Ser Thr Arg Ile
             335                 340                 345
Pro Lys Val Gln Arg Leu Leu Gln Asp Tyr Phe Asn Gly Arg Asp
             350                 355                 360
Leu Asn Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala
             365                 370                 375
Ala Val Gln Ala Ala Ile Leu Met Gly Asp Lys Ser Glu Lys Val
             380                 385                 390
Gln Asp Leu Leu Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu
             395                 400                 405
Glu Thr Val Gly Gly Val Met Thr Ala Leu Ile Lys Arg Asn Ser
             410                 415                 420
Thr Ile Pro Pro Lys Gln Thr Gln Ile Phe Thr Thr Tyr Ser Asp
             425                 430                 435
Asn Gln Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala
             440                 445                 450
Met Thr Lys Asp Asn Asn Leu Leu Gly Arg Phe Asp Leu Thr Gly
             455                 460                 465
Ile Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe
             470                 475                 480
Asp Ile Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Met Asp Lys
             485                 490                 495
Ser Thr Gly Lys Val Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly
             500                 505                 510
Arg Leu Ser Lys Glu Glu Ile Glu Arg Met Val Leu Asp Ala Glu
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Lys Tyr Lys Ala Glu Asp Glu Val Gln Arg Glu Lys Ile Ala Ala
             530                 535                 540
Lys Asn Ala Leu Glu Ser Tyr Ala Phe Asn Met Lys Ser Val Val
             545                 550                 555
Ser Asp Glu Gly Leu Lys Gly Lys Ile Ser Glu Ser Asp Lys Asn
             560                 565                 570
Lys Ile Leu Asp Lys Cys Asn Glu Leu Leu Ser Trp Leu Glu Val
             575                 580                 585
Asn Gln Leu Ala Glu Lys Asp Glu Phe Asp His Lys Arg Lys Glu
             590                 595                 600
Leu Glu Gln Met Cys Asn Pro Ile Ile Thr Lys Leu Tyr Gln Gly
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Gly Cys Thr Gly Pro Ala Cys Gly Thr Gly Tyr Val Pro Gly Arg
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83

Pro Ala Thr Gly Pro Thr Ile Glu Glu Val Asp
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<223> Incyte ID No: 251859.2

<220>
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<223> a, t, c, g, or other

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84

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gaccccccttc aaacctaaaa atcaagttat ttccttttat aatactttttc ttccccatgg 3240
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ctcatttatg ctttttgtctt ttttatgaaa tatttctttt aaaagcccca gtctcaccta 3360
cgaaatatga agagcaaaag ctgatttttgc ttacttgcta aactgttggg aaagctctgt 3420
agagcatggt tccagtgagg ccaagattga aatttgatac taaaaaggcc acctagcttt 3480
ttgcagataa caaacaagaa agctattcca agactcagat gatgccagct gtctcccacg 3540
tgtgtattat ggttcaccag ggggaactgg caaaagtgtg tgtggggagg ggaagggtgt 3600
gtgagtggtt ctgagcaaat aactacaggg tgcccattac cactcaagaa gacacttcac 3660
gtattcttgt atcaaattca ataatcttaa acaatttgtg tagaagtcca cagacatctt 3720
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tgtttntnaa naaaaaaaat catttagatg cacttttttg tgtgttcttt aaataaatcc 3840
aaaaaaaatg tgacttccca ttgttttttgg ttttgcttaa gtgattttca gggaaagcta 3900
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<210> 75
<211> 3586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3766715CB1

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ttatagcaac tgacttccca gttaagtccc agtgtaaggg ttggtctttg gttggcagaa 180
ctgaacatgg tggtttgcac ttgggttctg gtggcgcagg cgcaggagca gccagctgtg 240
gcagcgcatt agttttggcg caagcgagcc tatgctgcag ggtcactttt ggctggtcag 300
agaaggaata atgatatcac cttcttcccc ccctcccccc aatcttttttt ttttcccttt 360
acaaattttc cccttttccct ttacctcctt tccctcccat cttctttcat taacccctcc 420
taaggcatgt tatttgaaag caattgagac gcaaccgaac tttgcagtag cttggagtaa 480
tcttggctgt gttttcaatg cacaagggga aatttggctt gcaattcatc actttgaaaa 540
ggctgtcacc cttgacccaa actttctgga tgcttatatc aatttaggaa atgtcttgaa 600
agaggcacgc atttttgaca gagctgtggc agcttatctt cgtgccctaa gtttgagtcc 660
aaatcacgca gtggtgcacg gcaacctggc ttgtgtatac tatgagcaag gcctgataga 720
tctggcaata gacacctaca ggcgggctat cgaactacaa ccacatttcc ctgatgctta 780
ctgcaaccta gccaatgctc tcaaagagaa gggcagtgtt gctgaagcag aagattgtta 840
taatacagct ctccgtctgt gtcccacccca tgcagactct ctgaataacc tagccaatat 900
caaacgagaa cagggaaaca ttgaagaggc agttcgcttg tatcgtaaag cattagaagt 960
cttcccagag tttgctgctg cccattcaaa tttagcaagt gtactgcagc agcagggaaa 1020
actgcaggaa gctctgatgc attataagga ggctattcga atcagtccta cctttgctga 1080
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gcgtgtagga tatgtgagtt ccgactttgg gaatcatcct acttctcacc ttatgcagtc 1620
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tattatcact gatcaggaaa cttcgccagc tgaagttgct gagcagtatt ccgagaaatt 1980
ggcttatatg ccccacactt tttttattgg tgatcatgct aatatgttcc ctcacctgaa 2040
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gaatggcatc gacctcaaag catttcttga tagtctacca gatgtgaaaa ttgtcaagat 2160
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tattcctatg aatactattg cagaagcagt tattgaaatg attaaccgag gacagattca 2280
aataacaatt aatggattca gtattagcaa tggactggca actactcaga tcaacaataa 2340
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gctggctgat gtctgcttgg acactccact ctgtaatggg cacaccacag ggatggatgt 2700
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ttaaaaatgt ttggtttcag gtattttat tcatgtgaag tgtatatgat tctcttgaga 3480
taaggtttta agctaaaatg ttactccctg ttttagtttc tgaactctga cagattgaca 3540
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<210> 76
<211> 920
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3766715CD1

<400> 76
Met Leu Gln Gly His Phe Trp Leu Val Arg Glu Gly Ile Met Ile
1   5   10   15
Ser Pro Ser Ser Pro Pro Pro Asn Leu Phe Phe Phe Pro Leu

86

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                     20                      25                      30
Gln Ile Phe Pro Phe Pro Phe Thr Ser Phe Pro Ser His Leu Leu
                     35                      40                      45
Ser Leu Thr Pro Pro Lys Ala Cys Tyr Leu Lys Ala Ile Glu Thr
                     50                      55                      60
Gln Pro Asn Phe Ala Val Ala Trp Ser Asn Leu Gly Cys Val Phe
                     65                      70                      75
Asn Ala Gln Gly Glu Ile Trp Leu Ala Ile His His Phe Glu Lys
                     80                      85                      90
Ala Val Thr Leu Asp Pro Asn Phe Leu Asp Ala Tyr Ile Asn Leu
                     95                     100                     105
Gly Asn Val Leu Lys Glu Ala Arg Ile Phe Asp Arg Ala Val Ala
                    110                     115                     120
Ala Tyr Leu Arg Ala Leu Ser Leu Ser Pro Asn His Ala Val Val
                    125                     130                     135
His Gly Asn Leu Ala Cys Val Tyr Tyr Glu Gln Gly Leu Ile Asp
                    140                     145                     150
Leu Ala Ile Asp Thr Tyr Arg Arg Ala Ile Glu Leu Gln Pro His
                    155                     160                     165
Phe Pro Asp Ala Tyr Cys Asn Leu Ala Asn Ala Leu Lys Glu Lys
                    170                     175                     180
Gly Ser Val Ala Glu Ala Glu Asp Cys Tyr Asn Thr Ala Leu Arg
                    185                     190                     195
Leu Cys Pro Thr His Ala Asp Ser Leu Asn Asn Leu Ala Asn Ile
                    200                     205                     210
Lys Arg Glu Gln Gly Asn Ile Glu Glu Ala Val Arg Leu Tyr Arg
                    215                     220                     225
Lys Ala Leu Glu Val Phe Pro Glu Phe Ala Ala Ala His Ser Asn
                    230                     235                     240
Leu Ala Ser Val Leu Gln Gln Gln Gly Lys Leu Gln Glu Ala Leu
                    245                     250                     255
Met His Tyr Lys Glu Ala Ile Arg Ile Ser Pro Thr Phe Ala Asp
                    260                     265                     270
Ala Tyr Ser Asn Met Gly Asn Thr Leu Lys Glu Met Gln Asp Val
                    275                     280                     285
Gln Gly Ala Leu Gln Cys Tyr Thr Arg Ala Ile Gln Ile Asn Pro
                    290                     295                     300
Ala Phe Ala Asp Ala His Ser Asn Leu Ala Ser Ile His Lys Asp
                    305                     310                     315
Ser Gly Asn Ile Pro Glu Ala Ile Ala Ser Tyr Arg Thr Ala Leu
                    320                     325                     330
Lys Leu Lys Pro Asp Phe Pro Asp Ala Tyr Cys Asn Leu Ala His
                    335                     340                     345
Cys Leu Gln Ile Val Cys Asp Trp Thr Asp Tyr Asp Glu Arg Met
                    350                     355                     360
Lys Lys Leu Val Ser Ile Val Ala Asp Gln Leu Glu Lys Asn Arg
                    365                     370                     375
Leu Pro Ser Val His Pro His His Ser Met Leu Tyr Pro Leu Ser
                    380                     385                     390
His Gly Phe Arg Lys Ala Ile Ala Glu Arg His Gly Asn Leu Cys
                    395                     400                     405
Leu Asp Lys Ile Asn Val Leu His Lys Pro Pro Tyr Glu His Pro
                    410                     415                     420
Lys Asp Leu Lys Leu Ser Asp Gly Arg Leu Arg Val Gly Tyr Val
                    425                     430                     435
Ser Ser Asp Phe Gly Asn His Pro Thr Ser His Leu Met Gln Ser
```

87

```
                440                      445                      450
Ile Pro Gly Met His Asn Pro Asp Lys Phe Glu Val Phe Cys Tyr
                455                      460                      465
Ala Leu Ser Pro Asp Asp Gly Thr Asn Phe Arg Val Lys Val Met
                470                      475                      480
Ala Glu Ala Asn His Phe Ile Asp Leu Ser Gln Ile Pro Cys Asn
                485                      490                      495
Gly Lys Ala Ala Asp Arg Ile His Gln Asp Gly Ile His Ile Leu
                500                      505                      510
Val Asn Met Asn Gly Tyr Thr Lys Gly Ala Arg Asn Glu Leu Phe
                515                      520                      525
Ala Leu Arg Pro Ala Pro Ile Gln Ala Met Trp Leu Gly Tyr Pro
                530                      535                      540
Gly Thr Ser Gly Ala Leu Phe Met Asp Tyr Ile Ile Thr Asp Gln
                545                      550                      555
Glu Thr Ser Pro Ala Glu Val Ala Glu Gln Tyr Ser Glu Lys Leu
                560                      565                      570
Ala Tyr Met Pro His Thr Phe Phe Ile Gly Asp His Ala Asn Met
                575                      580                      585
Phe Pro His Leu Lys Lys Lys Ala Val Ile Asp Phe Lys Ser Asn
                590                      595                      600
Gly His Ile Tyr Asp Asn Arg Ile Val Leu Asn Gly Ile Asp Leu
                605                      610                      615
Lys Ala Phe Leu Asp Ser Leu Pro Asp Val Lys Ile Val Lys Met
                620                      625                      630
Lys Cys Pro Asp Gly Gly Asp Asn Ala Asp Ser Ser Asn Thr Ala
                635                      640                      645
Leu Asn Met Pro Val Ile Pro Met Asn Thr Ile Ala Glu Ala Val
                650                      655                      660
Ile Glu Met Ile Asn Arg Gly Gln Ile Gln Ile Thr Ile Asn Gly
                665                      670                      675
Phe Ser Ile Ser Asn Gly Leu Ala Thr Thr Gln Ile Asn Asn Lys
                680                      685                      690
Ala Ala Thr Gly Glu Glu Val Pro Arg Thr Ile Ile Val Thr Thr
                695                      700                      705
Arg Ser Gln Tyr Gly Leu Pro Glu Asp Ala Ile Val Tyr Cys Asn
                710                      715                      720
Phe Asn Gln Leu Tyr Lys Ile Asp Pro Ser Thr Leu Gln Met Trp
                725                      730                      735
Ala Asn Ile Leu Lys Arg Val Pro Asn Ser Val Leu Trp Leu Leu
                740                      745                      750
Arg Phe Pro Ala Val Gly Glu Pro Asn Ile Gln Gln Tyr Ala Gln
                755                      760                      765
Asn Met Gly Leu Pro Gln Asn Arg Ile Ile Phe Ser Pro Val Ala
                770                      775                      780
Pro Lys Glu Glu His Val Arg Arg Gly Gln Leu Ala Asp Val Cys
                785                      790                      795
Leu Asp Thr Pro Leu Cys Asn Gly His Thr Thr Gly Met Asp Val
                800                      805                      810
Leu Trp Ala Gly Thr Pro Met Val Thr Met Pro Gly Glu Thr Leu
                815                      820                      825
Ala Ser Arg Val Ala Ala Ser Gln Leu Thr Cys Leu Gly Cys Leu
                830                      835                      840
Glu Leu Ile Ala Lys Asn Arg Gln Glu Tyr Glu Asp Ile Ala Val
                845                      850                      855
Lys Leu Gly Thr Asp Leu Glu Tyr Leu Lys Lys Val Arg Gly Lys
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88

```
                 860                      865                      870
Val Trp Lys Gln Arg Ile Ser Ser Pro Leu Phe Asn Thr Lys Gln
                 875                      880                      885
Tyr Thr Met Glu Leu Glu Arg Leu Tyr Leu Gln Met Trp Glu His
                 890                      895                      900
Tyr Ala Ala Gly Asn Lys Pro Asp His Met Ile Lys Pro Val Glu
                 905                      910                      915
Val Thr Glu Ser Ala
                 920
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<210> 77
<211> 3428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2049950CB1

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tgagctggga ggaaaccaag cgccatgccg accacgtgcg gcggcacggg atcctccagt 180
tcctgcacat ctaccacgcc gtcaaggacc ggcacaagga cgttctcaag tggggcgatg 240
aggtggaata catgttggta tcttttgatc atgaaaataa aaaagtccgg ttggtcctgt 300
ctggggagaa agttcttgaa actctgcaag agaaggggga aggacaaac ccaaaccatc 360
ctaccctttg gagaccagag tatgggagtt acatgattga agggacacca ggacagccct 420
acggaggaac aatgtccgag ttcaatacag ttgaggccaa catgcgaaaa cgccggaagg 480
aggctacttc tatattagaa gaaaatcagg ctctttgcac aataacttca tttcccagat 540
taggctgtcc tgggttcaca ctgcccgagg tcaaacccaa cccagtggaa ggaggagctt 600
ccaagtccct cttctttcca gatgaagcaa taaacaagca ccctcgcttc agtaccttaa 660
caagaaatat ccgacatagg agaggagaaa aggttgtcat caatgtacca atatttaagg 720
acaagaatac accatctcca tttatagaaa catttactga ggatgatgaa gcttcaaggg 780
cttctaagcc ggatcatatt tacatggatg ccatgggatt tggaatgggc aattgctgca 840
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ctactatctg tccaattgtt atggctttga gtgctgcatc tcccttttac cgaggctatg 960
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atgttgctca tctctttatt agagacccac tgacactgtt tgaagagaaa atacacctgg 1260
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gagtgatcct ttcctacaaa ttggattttc tcattccact gtcaaaggtt gatgagaaca 1500
tgaaggtagc acagaaaaga gatgctgtct gcagggaat gtttttatttc aggaaagata 1560
tttgcaaagg tggcaatgca gtggtggatg gttgtggcaa ggcccagaac agcacggagc 1620
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taatgacagt tgccagatgg atgagggagt ttatcgcaaa ccatcctgac tacaagcaag 1860
acagtgtcat aactgatgaa atgaattata gccttatttt gaagtgtaac caaattgcaa 1920
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ctgtactgtt ttctgggcca gtgagccaga aattgattaa ggctttcttt ggtaggtaaa 2160
tctagagttt atacagtgta catgtacata gtaaagtatt tttgattaac aatgtatttt 2220
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aataacatat ctaaagtcat catgaactgg cttgtacatt tttaaattct tactctggag 2280
caacctactg tctaagcagt tttgtaaatg tactggtaat tgtacaatac ttgcattcca 2340
gagttaaaat gtttactgta aatttttgtt cttttaaaga ctacctggga cctgatttat 2400
tgaaattttt ctctttaaaa acattttctc tcgttaattt tcctttgtca tttcctttgt 2460
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aaaaaaaa                                                       3428
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<210> 78
<211> 637
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2049950CD1

<400> 78

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Lys Arg His Ala Asp His Val Arg Arg His Gly Ile Leu Gln Phe
                20                  25                  30
Leu His Ile Tyr His Ala Val Lys Asp Arg His Lys Asp Val Leu
                35                  40                  45
Lys Trp Gly Asp Glu Val Glu Tyr Met Leu Val Ser Phe Asp His
                50                  55                  60
Glu Asn Lys Lys Val Arg Leu Val Leu Ser Gly Glu Lys Val Leu
                65                  70                  75
Glu Thr Leu Gln Glu Lys Gly Glu Arg Thr Asn Pro Asn His Pro
                80                  85                  90
Thr Leu Trp Arg Pro Glu Tyr Gly Ser Tyr Met Ile Glu Gly Thr
                95                  100                 105
Pro Gly Gln Pro Tyr Gly Gly Thr Met Ser Glu Phe Asn Thr Val
                110                 115                 120
Glu Ala Asn Met Arg Lys Arg Arg Lys Glu Ala Thr Ser Ile Leu
                125                 130                 135
Glu Glu Asn Gln Ala Leu Cys Thr Ile Thr Ser Phe Pro Arg Leu
                140                 145                 150
Gly Cys Pro Gly Phe Thr Leu Pro Glu Val Lys Pro Asn Pro Val
                155                 160                 165
Glu Gly Gly Ala Ser Lys Ser Leu Phe Phe Pro Asp Glu Ala Ile
                170                 175                 180
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90

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Asn Lys His Pro Arg Phe Ser Thr Leu Thr Arg Asn Ile Arg His
                185                 190                 195
Arg Arg Gly Glu Lys Val Val Ile Asn Val Pro Ile Phe Lys Asp
                200                 205                 210
Lys Asn Thr Pro Ser Pro Phe Ile Glu Thr Phe Thr Glu Asp Asp
                215                 220                 225
Glu Ala Ser Arg Ala Ser Lys Pro Asp His Ile Tyr Met Asp Ala
                230                 235                 240
Met Gly Phe Gly Met Gly Asn Cys Cys Leu Gln Val Thr Phe Gln
                245                 250                 255
Ala Cys Ser Ile Ser Glu Ala Arg Tyr Leu Tyr Asp Gln Leu Ala
                260                 265                 270
Thr Ile Cys Pro Ile Val Met Ala Leu Ser Ala Ala Ser Pro Phe
                275                 280                 285
Tyr Arg Gly Tyr Val Ser Asp Ile Asp Cys Arg Trp Gly Val Ile
                290                 295                 300
Ser Ala Ser Val Asp Asp Arg Thr Arg Glu Glu Arg Gly Leu Glu
                305                 310                 315
Pro Leu Lys Asn Asn Asn Tyr Arg Ile Ser Lys Ser Arg Tyr Asp
                320                 325                 330
Ser Ile Asp Ser Tyr Leu Ser Lys Cys Gly Glu Lys Tyr Asn Asp
                335                 340                 345
Ile Asp Leu Thr Ile Asp Lys Glu Ile Tyr Glu Gln Leu Leu Gln
                350                 355                 360
Glu Gly Ile Asp His Leu Leu Ala Gln His Val Ala His Leu Phe
                365                 370                 375
Ile Arg Asp Pro Leu Thr Leu Phe Glu Glu Lys Ile His Leu Asp
                380                 385                 390
Asp Ala Asn Glu Ser Asp His Phe Glu Asn Ile Gln Ser Thr Asn
                395                 400                 405
Trp Gln Thr Met Arg Phe Lys Pro Pro Pro Pro Asn Ser Asp Ile
                410                 415                 420
Gly Trp Arg Val Glu Phe Arg Pro Met Glu Val Gln Leu Thr Asp
                425                 430                 435
Phe Glu Asn Ser Ala Tyr Val Val Phe Val Val Leu Leu Thr Arg
                440                 445                 450
Val Ile Leu Ser Tyr Lys Leu Asp Phe Leu Ile Pro Leu Ser Lys
                455                 460                 465
Val Asp Glu Asn Met Lys Val Ala Gln Lys Arg Asp Ala Val Leu
                470                 475                 480
Gln Gly Met Phe Tyr Phe Arg Lys Asp Ile Cys Lys Gly Gly Asn
                485                 490                 495
Ala Val Val Asp Gly Cys Gly Lys Ala Gln Asn Ser Thr Glu Leu
                500                 505                 510
Ala Ala Glu Glu Tyr Thr Leu Met Ser Ile Asp Thr Ile Ile Asn
                515                 520                 525
Gly Lys Glu Gly Val Phe Pro Gly Leu Ile Pro Ile Leu Asn Ser
                530                 535                 540
Tyr Leu Glu Asn Met Glu Val Asp Val Asp Thr Arg Cys Ser Ile
                545                 550                 555
Leu Asn Tyr Leu Lys Leu Ile Lys Lys Arg Ala Ser Gly Glu Leu
                560                 565                 570
Met Thr Val Ala Arg Trp Met Arg Glu Phe Ile Ala Asn His Pro
                575                 580                 585
Asp Tyr Lys Gln Asp Ser Val Ile Thr Asp Glu Met Asn Tyr Ser
                590                 595                 600
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91

```
Leu Ile Leu Lys Cys Asn Gln Ile Ala Asn Glu Leu Cys Glu Cys
            605                 610                 615
Pro Glu Leu Leu Gly Ser Ala Phe Arg Lys Val Lys Tyr Ser Gly
            620                 625                 630
Ser Lys Thr Asp Ser Ser Asn
            635
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<210> 79
<211> 1093
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 231588.6c

<400> 79
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gcatccctca ctgactgaag ggataggaag gcaacaagcc agtagaagag aaaatgcttt 60
gctaaacatc atcgtatgtc tgtgtcttat ttctcttttt tgactatttа atcttatttc 120
acttaggacc ttggttattt atattagttg tctataggca gtggaacata attaaatacc 180
attttctagt taaattcacc taagacaact tttaaacaaa actcttgcgt taaatgttgc 240
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aagagatcta cgaacagctg ttgcaggaag gcattgatca tctcctggcc cagcatgttg 720
ctcatctctt tattagagac ccactgacac tgtttgaaga gaaaatacac ctggatgatg 780
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aattaacaga ctttgagaac tctgcctatg tggtgtttgt ggtactgctc accagagtga 960
tcctttccta caaattggat tttctcattc cactgtcaaa ggtaaggata tgtttctta 1020
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cctgatttca ttt                                                1093
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<210> 80
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 152298.2

<220>
<221> unsure
<222> 343-385
<223> a, t, c, g, or other

<400> 80
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tctctaccga ggtgtgatct cctaactcct ggcactcatt tacctatcca tggttggtag 180
tcagcctcca agatgcctgc agtcatccct gcctcctggg attcatatcc tcctccacat 240
tgtgccagga ttgggctctg tggccaaaaa gaaaacagca gatgagagga cgtgtctctt 300
```

92

```
ctcagaaggg ttagaaaaga ctgtggcttc cattttagat gannnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnctctt ttccttcttc tcttccttgg atctcttgct 420
ctgaggaaag caaactacta tgttgtgagc agcccaatgg agaggcccac aagacaacga 480
actgaagcct ccagcaacaa ccctgtgagg tcagtttgga agtggatttt ctagccccaa 540
ttgagcttaa gatgacttca gcttcagcag acagcttgac tgcagccttt ctagagagca 600
agcaccaccc agctctgctg cttctagacc cctgacctca gaaattgcac gagataacat 660
gtttgctgtt tcaggctgcc aaatttaggg ctggaactg cccataaagg ctggcacccc 720
agcagccacc ttgagaaatg cagtgatgat gctgagtggc aaggcagaag gcacagggtc 780
cctgcacctg aggattgctg ctccaaacct gggccaccag cctgaagatc ccgc      834
```

<210> 81
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 199507.1

<400> 81
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ttagctgact ttttagattc ttttttcttt tacatgatgt agttctcaga tatatacggg 180
atttctagtt cttaaatgcc agtatttttt ttctgttaaa atatttatga actatttcaa 240
acattcagaa aaactcagga tcatacccat aaacccactg tttagatttt aaaaagttca 300
atgttttct gtattttatc tcttccattt taaaataaag ttttgcacat g           351
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<210> 82
<211> 919
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1434821CB1

<220>
<221> unsure
<222> 15, 19, 40, 48, 55-56, 85-86, 88-299, 859, 861, 863, 866, 872, 874-875,
877, 879-881, 890, 906-907
<223> a, t, c, g, or other

<400> 82
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taaggcgcgt cccatcgcca ttcanntnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
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gctctttaag caaacagagc ctgccctata aaatccgggg ctcgggcggc ctctcatccc 360
tgactcgggg tcgcctttgg agcagagagg aggcaatggc caccatggag aacaaggtga 420
tctgcgccct ggtcctggtg tccatgctgg ccctcggcac cctggccgag gcccagacag 480
agacgtgtac agtggccccc cgtgaaagac agaattgtgg ttttcctggt gtcacgccct 540
cccagtgtgc aaataagggc tgctgtttcg acgacaccgt tcgtggggtc ccctggtgct 600
tctatcctaa taccatcgac gtccctccag aagaggagtg tgaattttag acacttctgc 660
agggatctgc ctgcatcctg acgcggtgcc gtccccagca cggtgattag tcccagagct 720
cggctgccac ctccaccgga cacctcagac acgcttctgc agctgtgcct cggctcacaa 780
```

93

```
cacagattga ctgctctgac tttgactact caaaattggc ctaaaaatta aaagagatcg 840
atattaaaaa aaaaaaaana nanaanggaa angnnancnn ngaaagagan aaaaaaaagg 900
gcggcnncga ctaatgaat                                              919
```

<210> 83
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1434821CD1

<400> 83
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                20                  25                  30
Cys Thr Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly
                35                  40                  45
Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp
                50                  55                  60
Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp
                65                  70                  75
Val Pro Pro Glu Glu Glu Cys Glu Phe
                80
```
<210> 84
<211> 2734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 289671.27

<400> 84
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attggagtgg agaactggag agaaagggtt gtcactgtcc agcactacac agctgcaggc 180
acacagatgg tacacattcc cagaaagaca cataggtaga cacgtggctg tacacccatg 240
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cccacatgcc tggcagtaca cagaactgta tgcatccatt tgtgccaggc tggggccttg 360
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tgaacaaagt ccctccccta catggtggac atgggatgag acggccttca gttacttcct 480
cttgacccccc agggctgcct gccgcctcat gtaggacagg atgtccatct tgacgttgct 540
gaccgtggtc cggtggtgcc agcgcatgat gggtatacca tctggcccca ccaggaactt 600
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cccaggagct ccgaggtggg aggacaggag ttctttagga aagtgtagaa tttctgctct 720
ttctctccat tgacatcccc tttctcaaag agctggaaat tagggacaaa gcctccacct 780
ggtcggacat acttgagggt aggaaggatc tctgagttct ctcctggttc ctgttttcca 840
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tgcattcagt tcaatgtact ggcccgtcag gcctcagtag ctggccacgt tgacaaagag 960
gacgtatttg ccagcatact gcttgaaggg gatgtactcc tccccatcaa tggtgagggc 1020
tccgtactcg taaatggtgc cacttatgcc accatggcag tccatcttcg acttctcttg 1080
tccccggctc tgcgagacgg acggtggcca gggatcaggc agcggctcag cgaccctga 1140
gtgtgccccc accccgccat ggcccggctg ctgcaggcgt cctgcctgct ttccctgctc 1200
```
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                                94
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```
ctggccggct tcgtctcgca gagccgggga caagagaagt cgaaggctcc ccgccagatg 1260
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ctcaccattg atggggagga gtacatcccc ttcaagcagt atgctggcaa atacgtcctc 1380
tttgtcaacg tggccagcta ctgaggcctg acgggccagt acattgaact gaatgcacta 1440
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tgcagctgtg tagtgctgga cagtgacaac cctttctctc cagttctcca ctccaatgat 2220
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gaggggccag cccttagtgc attcaggcta aggcccctgg gcagggatgc cacccctgct 2640
ccttcggagg acgtgccctc acccctcact ggtccactgg cttgagactc accccgtctg 2700
cccagtaaaa gcctttctgc agcagctgaa aaaa                              2734
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<210> 85
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1282225CB1

<400> 85
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ggaaaacttt gaagccttca tgaaggcaat cggtctgccg gaagagctca tccagaaggg 180
gaaggatatc aagggggtgt cggaaatcgt gcagaatggg aagcacttca agttcaccat 240
caccgctggg tccaaagtga tccaaaacga attcacggtg ggggaggaat gtgagctgga 300
gacaatgaca ggggagaaag tcaagacagt ggttcagttg gaaggtgaca ataaactggt 360
gacagctttc aaaaacatca gtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
catgacattg ggtgacattg tcttcaagag aatcagcaag agaatttaaa caagtctgca 480
tttcatatta ttttagtgtg taaaattaat gtaataaagt gaactttg              528
```

```
<210> 86
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1282225CD1
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95

<400> 86

Met	Ser	Phe	Ser	Gly	Lys	Tyr	Gln	Leu	Gln	Ser	Gln	Glu	Asn	Phe
1				5					10					15

Glu Ala Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln
          20   25   30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
          35   40   45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
          50   55   60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
          65   70   75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
          80   85   90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
          95   100   105
Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
          110   115   120
Lys Arg Ile Ser Lys Arg Ile
          125

<210> 87
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 263336.57

<400> 87
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tgtgcccagg gctgcgtctg caaaggggca tcggagaagt gcagctgctg tgcctgatgt 180
gggaacagct cttctcccag atgtaaatag aacaacctgc acaacctgga ttttttaaa 240
aatacaacac tgagccattt gctgcatttc tttttatact aaatatgtga ctgacaataa 300
aaacaatttt gactttaaaa aaaa   324

<210> 88
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 464689.40

<400> 88
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agatgctctg tggactgaat gccaggaact ggaagtttgc cgaaatttca tcatcacatg 180
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gttaatcctt ggcattggca tagagaaaca agttactggg gaggcctggg gcatggcatc 300
cctgccagct ggcaggagga ggtggcttgt gtgccttgca ggtgacaatg tgggcagctc 360
atgaaggtag gcttgaagcc ccaggcaagc ccagtgaccc ggtcacagtg aagtgcctgt 420
gtgtgtaaga aactgacaga acgtgctgtc cctgcctcct gctctttcac atgtgtagat 480
cgtagctggg gtgaactact cttggacgt ggagctgggc cgaaccacgt gtaccaagac 540
ccagcccaac ttggacaact gccccttcca tgaccagcca catctgaaaa ggaaagcatt 600

96

```
ctgctctttc cagatctacg ctgtgccttg gcagggcaca atgaccttgt cgaaatccac 660
ctgtcaggac gcctaggggt ctgtaccggg ctggcctgtg cctatcacct cttatgcaca 720
cctcccaccc cctgtattcc cacccctgga ctggtggccc ctgccttggg gaaggtctcc 780
ccatgtgcct gcaccaggag acagacagag aaggcagcag gcggcctttg ttgctcagca 840
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<210> 89
<211> 1788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<220>
<221> unsure
<222> 32, 361, 1085, 1180, 1183, 1191, 1207, 1234, 1247, 1275, 1319,
1327-1328, 1332, 1336, 1338, 1343, 1345, 1351, 1353, 1362-1363, 1366, 1368,
1376-1378, 1380, 1383-1384, 1388, 1396, 1398-1399, 1402, 1411-1413
<223> a, t, c, g, or other

<400> 89
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tgccaattca gatgatcaga aatgctgctt tcctcagcat tgtcttgtta aaccgcatgc 300
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accggaatgt tcttaaaatt tactaaaaca gtattgtttg aggaagagaa aactgtactg 600
tttgccatta ttacagtcgt acaagtgcat gtcaagtcac ccactctctc aggcatcagt 660
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<210> 90

97

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<211> 1111
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.19c

<220>
<221> unsure
<222> 519-616, 774-963
<223> a, t, c, g, or other

<400> 90
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caacttaatg aaaccgatat ccttcgcgta ctgacggaaa cactggcggc acatattgag 180
gccatatttc cggatcagac cgtgccggtt tgaacagaca cgacaagagc gagaaccctg 240
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aagcagatga cctaatagaa acgtaagcaa aatgcttaaa caggcacctc acaacaagtt 1080
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<210> 91
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.23

<220>
<221> unsure
<222> 739
<223> a, t, c, g, or other

<400> 91
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gttgggtgga agactgtgtc ttcctgtgtg tttggatgag taccagaact ttctgcgtct 180
gtttttcacc ctacccaatg cagtgcttac ctaaaaaatg cgttgaatag agcttcttgc 240
ttttacctcg ttgcactgct gagagcaaga tgggtcacca gcagctgtac tggagccacc 300
cgcgaaaatt cggccagggt tctcgctctt gtcgtgtctg ttcaaaccgg cacggtctga 360
tccggaaata tggcctcaat atgtgccgcc agtgtttccg tcagtacgcg aaggatatcg 420
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gtttcattaa gttggactaa atgctcttcc ttcagaggat tatccggggc atctactcaa 480
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ggtgctcagc tttctgcggc gggttccggg ctgtattccc tttatgggcg ccccctaaatt 660
tactcagggg cgggtttttaa cagggcccct gggaaccccc ggtttcacat ttacccgtgt 720
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ccctgtgaga cgaccctctt actgattccc tgttgggttg gcgttctcag ggtcccggtg 840
gtacacctga tcatcgagca gccactgggt cgcctctctg ttcgtggtca cgtcgacgtc 900
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t                                                                961
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<210> 92
<211> 3041
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 159309CB1

<400> 92
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cggacacggc ccggcccggc catggcctcg ttgctgaagg tggatcagga agtgaagctc 240
aaggttgatt cttttcaggga gcggatcaca agtgaggcag aagacttggt ggcaaatttt 300
ttcccaaaga agttattaga acttgatagt tttctgaagg aaccaatctt aaacatccat 360
gacctaactc agatccactc tgacatgaat ctcccagtcc ctgaccccat tcttctcacc 420
aatagccatg atggactgga tggtcccact tataagaagc gaaggttgga tgagtgtgaa 480
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aacacggtca aaatgtgggt acagctcctg attcccagga tagaagatgg aaacaacttt 660
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<210> 93
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 159309CD1

<400> 93
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                20                  25                  30
Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser Phe Leu
                35                  40                  45
Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His Ser
                50                  55                  60
Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser
                65                  70                  75
His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp
                80                  85                  90
Glu Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro
                95                 100                 105
Asn Gly Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu
               110                 115                 120
Lys Val Lys Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr
               125                 130                 135
Val Lys Met Trp Val Gln Leu Leu Ile Pro Arg Ile Glu Asp Gly
               140                 145                 150
Asn Asn Phe Gly Val Ser Ile Gln Glu Glu Thr Val Ala Glu Leu
               155                 160                 165
Arg Thr Val Glu Ser Glu Ala Ala Ser Tyr Leu Asp Gln Ile Ser
               170                 175                 180
Arg Tyr Tyr Ile Thr Arg Ala Lys Leu Val Ser Lys Ile Ala Lys
               185                 190                 195
Tyr Pro His Val Glu Asp Tyr Arg Arg Thr Val Thr Glu Ile Asp
               200                 205                 210
Glu Lys Glu Tyr Ile Ser Leu Arg Leu Ile Ile Ser Glu Leu Arg
```

```
                215                    220                    225
Asn Gln Tyr Val Thr Leu His Asp Met Ile Leu Lys Asn Ile Glu
                230                    235                    240
Lys Ile Lys Arg Pro Arg Ser Ser Asn Ala Glu Thr Leu Tyr
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<210> 94
<211> 1298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1273641CB1

<400> 94
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tggaacttgc cctcactagc atcctgacct tgctggcgct gggctccatt gccatcttcc 240
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tcttgaagat aacgctgacc tggtgggcct tgttctcgtc cccgacggaa tcttatgacc 660
cagcagacat ttctgagggg agcacagctc tatggatcaa cactttcctt ggcgtgtcca 720
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gaacaatgtt aggataaaat tgctttggat cttgcctgga aggtgtttta agttttgtaa 1260
taaacaagat gatgtctgaa aatgtgaaaa aaaaaaaa                     1298
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<210> 95
<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1273641CD1

<400> 95
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 1               5                    10                   15
Leu Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg
                20                   25                   30
Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
                35                   40                   45
Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
                50                   55                   60
```

```
Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
            65                  70                      75
Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
            80                  85                      90
Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
            95                  100                     105
Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
            110                 115                     120
Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
            125                 130                     135
Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
            140                 145                     150
Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
            155                 160                     165
Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
            170                 175                     180
Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
            185                 190                     195
Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val Gly Tyr
            200                 205                     210
Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala
            215                 220
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<210> 96
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 403717.1

<400> 96
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gccggctgga aggcctaagg aaagcagccg atggctccca agacaactct gtccggccag 240
tactccaggg caacttcaac cccactagga cccaggccaa aaccatatat atatatatat 300
atgaattaac gcaaaacaga gccactttgg tgcctacccc tccacaagta ggtaggcaca 360
tccaggtagc tctgtcagaa gatgggacct ggcgccttgc aggggtagcc ctatggagat 420
ccagaagccc cgtttcgagc tacgaagtct ctcttctact gcagtcttct ctccaacgtg 480
gagatctagc aacttccctc cccctgggat tccctgtgaa tccactctag ttgggatata 540
gcctctctac agctcagtga cgtagcgcgc caaaaccaag tacccacccc ggcaactgga 600
agacctagct gtcctccatc ccgcctccgc agtcgataat ctccaggatc caagcaaagt 660
gcctgtccac gttgtcacca gatccacaag cgcttttgat gagagctgct acccttttgg 720
aaacacgatt ccctctccct agtagagaag aatctattct tctgggctgg cgtagacaaa 780
gaataaccaa gataaagtat gtggtgtgaa aataaataaa aaa                   823
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<210> 97
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 047593.1

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<220>
<221> unsure
<222> 502-546, 605-661
<223> a, t, c, g, or other

<400> 97
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tctgcaattc aactctgggc tccatcttga aggaaatgaa tgcatgaaga acattcttaa 180
cctagtatgt ctacggccat accaccctag gcgtgcccaa tctcgtctga acccagtacg 240
tgacatgccc tatgctgatg ctttcatatg cgttacctta tttaatcctc atgacttcca 300
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tggctcaaag aaataatttt taagtagcaa caccaacatt tggaatcttc ttgaaacttc 420
taactcctag aagaccacca tgctgtattt ttggtctaca aatttaaatg gaatagtatc 480
taatgttggg gaaaacggga gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnngatg aaaatgttct aaaattgaca gtgatgacca ttgctcaact ccatgaggac 600
tctannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
ncacacagag ctgttacaaa taagtaatat ttaatggagg cctcttccca ccctactcta 720
caacagtcac aaaaacctct caattttccc atatatcctg aagtagaagg gcttgccttt 780
tatctctttg taat 794

<210> 98
<211> 3722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 347055.4

<220>
<221> unsure
<222> 104, 2838
<223> a, t, c, g, or other

<400> 98
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<210> 99
<211> 1498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 898899.11

<400> 99
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gcggcccggc atgcgcgcgg ccttttgcta ccagatccgg cgttgtacag acgacgtgcg 180
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<210> 100
<211> 3042
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 898899.32

<220>
<221> unsure
<222> 865, 881, 888-889, 897, 1850, 3016
<223> a, t, c, g, or other

<400> 100
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agatcgagcg agagttctgt gacctccccc gctgcggtag gcggcgggga ccaggcctgg 1020
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105

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<210> 101
<211> 1952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2047630CB1

<400> 101
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gctatgaaga ttgcacacag aggtccagat gcattccgtt ttgagaatgt caatggatac 240
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ccaattcgag tgaagaaata tccgtatttg tggctctgtt acaatggtga aatctacaac 360
cataagaaga tgcaacagca ttttgaattt gaataccaga ccaaagtgga tggtgagata 420
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tttgcatttg ttttactgga tactgccaat aagaaagtgt tcctgggtag agatacatat 540
ggagtcagac ctttgtttaa agcaatgaca gaagatggat ttttggctgt atgttcagaa 600
gctaaaggtc ttgttacatt gaagcactcc gcgactccct tttaaaagt ggagcctttt 660
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gcttaggtgg tctttatgct gtaatgtgaa agcaaatatt tcttcgtgtt ggatgggggac 1860
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<210> 102
<211> 561
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2047630CD1

<400> 102

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Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe
                35                  40                  45
Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
                50                  55                  60
Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn
                65                  70                  75
Gly Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe
                80                  85                  90
Glu Tyr Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr
                95                  100                 105
Asp Lys Gly Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val
                110                 115                 120
Phe Ala Phe Val Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu
                125                 130                 135
Gly Arg Asp Thr Tyr Gly Val Arg Pro Leu Phe Lys Ala Met Thr
                140                 145                 150
Glu Asp Gly Phe Leu Ala Val Cys Ser Glu Ala Lys Gly Leu Val
                155                 160                 165
Thr Leu Lys His Ser Ala Thr Pro Phe Leu Lys Val Glu Pro Phe
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107

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                170                     175                     180
Leu Pro Gly His Tyr Glu Val Leu Asp Leu Lys Pro Asn Gly Lys
                185                     190                     195
Val Ala Ser Val Glu Met Val Lys Tyr His His Cys Arg Asp Glu
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Pro Leu His Ala Leu Tyr Asp Asn Val Glu Lys Leu Phe Pro Gly
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Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg Ile Leu Phe Asn
                230                     235                     240
Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg Ile Gly Cys
                245                     250                     255
Leu Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala Thr Leu
                260                     265                     270
Leu Lys Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln Thr
                275                     280                     285
Phe Ala Ile Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg
                290                     295                     300
Lys Val Ala Asp His Ile Gly Ser Glu His Tyr Glu Val Leu Phe
                305                     310                     315
Asn Ser Glu Glu Gly Ile Gln Ala Leu Asp Glu Val Ile Phe Ser
                320                     325                     330
Leu Glu Thr Tyr Asp Ile Thr Thr Val Arg Ala Ser Val Gly Met
                335                     340                     345
Tyr Leu Ile Ser Lys Tyr Ile Arg Lys Asn Thr Asp Ser Val Val
                350                     355                     360
Ile Phe Ser Gly Glu Gly Ser Asp Glu Leu Thr Gln Gly Tyr Ile
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Tyr Phe His Lys Ala Pro Ser Pro Glu Lys Ala Glu Glu Glu Ser
                380                     385                     390
Glu Arg Leu Leu Arg Glu Leu Tyr Leu Phe Asp Val Leu Arg Ala
                395                     400                     405
Asp Arg Thr Thr Ala Ala His Gly Leu Glu Leu Arg Val Pro Phe
                410                     415                     420
Leu Asp His Arg Phe Ser Ser Tyr Tyr Leu Ser Leu Pro Pro Glu
                425                     430                     435
Met Arg Ile Pro Lys Asn Gly Ile Glu Lys His Leu Leu Arg Glu
                440                     445                     450
Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys Glu Ile Leu Trp Arg
                455                     460                     465
Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser Val Lys Asn Ser
                470                     475                     480
Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln Val Asp Asp
                485                     490                     495
Ala Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn Thr Pro
                500                     505                     510
Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg His
                515                     520                     525
Tyr Pro Gly Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys
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Lys Ser Ala Val Lys Ala
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<210> 103
<211> 2764
<212> DNA

PA-0035 US

<400> 103

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<210> 104

<211> 1450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1272969CB1

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<210> 105
<211> 430
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1272969CD1

<400> 105
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                20   25   30
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                35   40   45
Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser
                50   55   60
Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly
                65   70   75
Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg

110

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Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu Asn
                 95                         100                         105
Arg Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly
                110                         115                         120
Pro Gln Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp
                125                         130                         135
Leu Arg Ala Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile
                140                         145                         150
Val Leu Gln Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
                155                         160                         165
Val Lys Tyr Glu Thr Glu Leu Ala Met Arg Gln Ser Val Glu Asn
                170                         175                         180
Asp Ile His Gly Leu Arg Lys Val Ile Asp Asp Thr Asn Ile Thr
                185                         190                         195
Arg Leu Gln Leu Glu Thr Glu Ile Glu Ala Leu Lys Glu Glu Leu
                200                         205                         210
Leu Phe Met Lys Lys Asn His Glu Glu Glu Val Lys Gly Leu Gln
                215                         220                         225
Ala Gln Ile Ala Ser Ser Gly Leu Thr Val Glu Val Asp Ala Pro
                230                         235                         240
Lys Ser Gln Asp Leu Ala Lys Ile Met Ala Asp Ile Arg Ala Gln
                245                         250                         255
Tyr Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu Leu Asp Lys Tyr
                260                         265                         270
Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr Val Val Thr Thr Gln
                275                         280                         285
Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu Thr Glu Leu Arg
                290                         295                         300
Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser Met Arg Asn
                305                         310                         315
Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu Ala Arg
                320                         325                         330
Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His Leu
                335                         340                         345
Glu Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala
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Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe
                380                         385                         390
Asn Leu Gly Asp Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile
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<210> 106
<211> 6290
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<213> Homo sapiens

<220>
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<400> 106

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112

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<210> 107
<211> 622
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 282397.94

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<210> 108
<211> 1521
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1448817CB1

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<210> 109
<211> 259
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PA-0035 US

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1448817CD1

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Ala Pro Cys Ser Ala Glu Lys Leu Ala Leu Cys Pro Pro Val Ser
                35   40   45
Ala Ser Cys Ser Glu Val Thr Arg Ser Ala Gly Cys Gly Cys Cys
                50   55   60
Pro Met Cys Ala Leu Pro Leu Gly Ala Ala Cys Gly Val Ala Thr
                65   70   75
Ala Arg Cys Ala Arg Gly Leu Ser Cys Arg Ala Leu Pro Gly Glu
                80   85   90
Gln Gln Pro Leu His Ala Leu Thr Arg Gly Gln Gly Ala Cys Val
                95   100   105
Gln Glu Ser Asp Ala Ser Ala Pro His Ala Ala Glu Ala Gly Ser
                110   115   120
Pro Glu Ser Pro Glu Ser Thr Glu Ile Thr Glu Glu Glu Leu Leu
                125   130   135
Asp Asn Phe His Leu Met Ala Pro Ser Glu Glu Asp His Ser Ile
                140   145   150
Leu Trp Asp Ala Ile Ser Thr Tyr Asp Gly Ser Lys Ala Leu His
                155   160   165
Val Thr Asn Ile Lys Lys Trp Lys Glu Pro Cys Arg Ile Glu Leu
                170   175   180
Tyr Arg Val Val Glu Ser Leu Ala Lys Ala Gln Glu Thr Ser Gly
                185   190   195
Glu Glu Ile Ser Lys Phe Tyr Leu Pro Asn Cys Asn Lys Asn Gly
                200   205   210
Phe Tyr His Ser Arg Gln Cys Glu Thr Ser Met Asp Gly Glu Ala
                215   220   225
Gly Leu Cys Trp Cys Val Tyr Pro Trp Asn Gly Lys Arg Ile Pro
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Gly Ser Pro Glu Ile Arg Gly Asp Pro Asn Cys Gln Ile Tyr Phe
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Asn Val Gln Asn

<210> 110
<211> 919
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1100769.2

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<221> unsure
<222> 867

115

<223> a, t, c, g, or other

<400> 110
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gcgtgcccaa ggacaaggcc attaagaaat tcgtcattcg aaacatagtg gaggccgcag 840
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<210> 111
<211> 1456
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 332521.1

<220>
<221> unsure
<222> 128, 131, 141-160, 910, 923-947
<223> a, t, c, g, or other

<400> 111
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<210> 112
<211> 4346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 225080.16

<400> 112
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 995529.7

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<210> 115
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<400> 116

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121

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caatggagag aatgataaga tgagggaagg aaaaggcatt cattattgac ttacatgtca 4260
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tacaaacaca cacacatcta ctattttaga taaatgtact gttatatata tatgtaaact 4380
actattgctc tctttataat gattaatcac tttatt 4416
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<210> 117
<211> 1606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 059509CB1

<400> 117
caactcattc gctttcattt cctcactgac tataaaagaa tagagaagga agggcttcag 60
tgaccggctg cctggctgac ttacagcagt cagactctga caggatcatg gctatgatgg 120
aggtccaggg gggacccagc ctgggacaga cctgcgtgct gatcgtgatc ttcacagtgc 180
tcctgcagtc tctctgtgtg gctgtaactt acgtgtactt taccaacgag ctgaagcaga 240
tgcaggacaa gtactccaaa agtggcattg cttgtttctt aaaagaagat gacagttatt 300
gggaccccaa tgacgaagag agtatgaaca gcccctgctg gcaagtcaag tggcaactcc 360
gtcagctcgt tagaaagatg attttgagaa cctctgagga aaccatttct acagttcaag 420
aaaagcaaca aaatatttct cccctagtga gagaaagagg tcctcagaga gtagcagctc 480
acataactgg gaccagagga agaagcaaca cattgtcttc tccaaactcc aagaatgaaa 540
aggctctggg ccgcaaaata aactcctggg aatcatcaag gagtgggcat tcattcctga 600
gcaacttgca cttgaggaat ggtgaactgg tcatccatga aaaagggttt tactacatct 660
actcccaaac atactttcga tttcaggagg aaataaaaga aaacacaaag aacgacaaac 720
aaatggtcca atatatttac aaatacacaa gttatcctga ccctatattg ttgatgaaaa 780
gtgctagaaa tagttgttgg tctaaagatg cagaatatgg actctattcc atctatcaag 840
ggggaatatt tgagcttaag gaaaatgaca gaattttgt ttctgtaaca aatgagcact 900
tgatagacat ggaccatgaa gccagttttt ttggggcctt tttagttggc taactgacct 960
ggaaagaaaa agcaataacc tcaaagtgac tattcagttt tcaggatgat acactatgaa 1020
gatgtttcaa aaaatctgac caaaacaaac aaacagaaaa cagaaaacaa aaaaacctct 1080
atgcaatctg agtagagcag ccacaaccaa aaaattctac aacacacact gttctgaaag 1140
tgactcactt atcccaagag aatgaaattg ctgaaagatc tttcaggact ctacctcata 1200
tcagtttgct agcagaaatc tagaagactg tcagcttcca aacattaatg caatggttaa 1260
catcttctgt ctttataatc tactccttgt aaagactgta gaagaaagcg caacaatcca 1320
tctctcaagt agtgtatcac agtagtagcc tccaggtttc cttaagggac aacatcctta 1380
agtcaaaaga gagaagaggc accactaaaa gatcgcagtt tgcctggtgc agtggctcac 1440
acctgtaatc ccaacatttt gggaacccaa ggtgggtaga tcacgagatc aagagatcaa 1500
gaccatagtg accaacatag tgaaacccca tctctactga aagtgcaaaa attagctggg 1560
tgtgttggca catgcctgta gtcccagcta cttgagaggc tgaggg 1606
```

PA-0035 US

<210> 118
<211> 281
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 059509CD1

<400> 118
Met Ala Met Met Glu Val Gln Gly Gly Pro Ser Leu Gly Gln Thr
1   5   10   15
Cys Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys
                20   25   30
Val Ala Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met
                35   40   45
Gln Asp Lys Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu
                50   55   60
Asp Asp Ser Tyr Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser
65   70   75
Pro Cys Trp Gln Val Lys Trp Gln Leu Arg Gln Leu Val Arg Lys
                80   85   90
Met Ile Leu Arg Thr Ser Glu Glu Thr Ile Ser Thr Val Gln Glu
                95   100   105
Lys Gln Gln Asn Ile Ser Pro Leu Val Arg Glu Arg Gly Pro Gln
                110   115   120
Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
                125   130   135
Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys
                140   145   150
Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
                155   160   165
Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly
                170   175   180
Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
                185   190   195
Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile
                200   205   210
Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser
                215   220   225
Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
                230   235   240
Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg
                245   250   255
Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
                260   265   270
Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
                275   280

<210> 119
<211> 593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 481231.14

123

```
<400> 119
aggaggtgcg tcctgctgcc tgccccggtc actctggctc cccagctcaa ggttcaggcc 60
ttgccccagg ccgggcctct gggtacctga ggtcccccac ggcccttcag gatgaaagct 120
gcggtgctga ccttggccgt gctcttcctg acggggagcc aggctcggca tttctggcag 180
caagatgaac cccccccagag cccctgggat cgagtgaagg acctggccac tgtgtacgtg 240
gatgtgctca aagacagcgg cagagactat gtgtcccagt ttgaaggctc cgccttggga 300
aaacagctaa acctaaagct ccttgacaac tgggacagcg tgacctccac cttcagcaag 360
ctgcgcgaac agctcggccc tgtgacccag gagttctggg ataacctgga aaaggagaca 420
gagggcctga ggcaggagat gagcaaggat ctggaggagg tgaaggccaa ggtgcagccc 480
gcgctcgagg acctccgcca aggcctgctg cccgtgctgg agagcttcaa ggtcagcttc 540
ctgagcgctc tcgaggagta cactaagaag ctcaacaccc agtgaggcgc ccg        593
```

```
<210> 120
<211> 2218
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 280276CB1
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```
<400> 120
tgctcctcag gagccagccc caccccttaga aaagatgttt tccatgagga tcgtctgcct 60
ggtcctaagt gtggtgggca cagcatggac tgcagatagt ggtgaaggtg actttctagc 120
tgaaggagga ggcgtgcgtg gcccaagggt tgtggaaaga catcaatctg cctgcaaaga 180
ttcagactgg cccttctgct ctgatgaaga ctggaactac aaatgccctt ctggctgcag 240
gatgaaaggg ttgattgatg aagtcaatca agatttttaca aacagaataa ataagctcaa 300
aaattcacta tttgaatatc agaagaacaa taaggattct cattcgttga ccactaatat 360
aatggaaatt ttgagaggcg attttttcctc agccaataac cgtgataata cctacaaccg 420
agtgtcagag gatctgagaa gcagaattga agtcctgaag cgcaaagtca tagaaaaagt 480
acagcatatc cagcttctgc agaaaaatgt tagagctcag ttggttgata tgaaacgact 540
ggaggtggac attgatatta agatccgatc ttgtcgaggg tcatgcagta gggctttagc 600
tcgtgaagta gatctgaagg actatgaaga tcagcagaag caacttgaac aggtcattgc 660
caaagactta cttccctcta gagataggca acacttacca ctgataaaaa tgaaaccagt 720
tccagacttg gttcccggaa attttaagag ccagcttcag aaggtacccc cagagtggaa 780
ggcattaaca gacatgccgc agatgagaat ggagttagag agacctggtg gaaatgagat 840
tactcgagga ggctccacct cttatggaac cggatcagag acggaaagcc ccaggaaccc 900
tagcagtgct ggaagctgga actctgggag ctctggacct ggaagtactg gaaaccgaaa 960
ccctgggagc tctgggactg gagggactgc aacctggaaa cctgggagct ctggacctgg 1020
aagtactgga agctggaact ctgggagctc tggaatcct ggcagctctg aacgcggaag 1140
tgctgggcac tggacctctg agagctctgt atctggtagt actggacaat ggcactctga 1200
atctggaagt tttaggccag atagcccagg ctctgggaac gcgaggccta caacccaga 1260
ctggggcaca tttgaagagg tgtcaggaaa tgtaagtcca gggacaagga gagtacca 1320
cacagaaaaa ctggtcactt ctaaaggaga taaagagctc aggactggta aagagaaggt 1380
cacctctggt agcacaacca ccacgcgtcg ttcatgctct aaaaccgtta ctaagactgt 1440
tattggtcct gatggtcaca agaagttac caaagaagtg gtgacctccg aagatggttc 1500
tgactgtccc gaggcaatgg atttaggcac attgtctggc ataggtactc tggatgggtt 1560
ccgccatagg caccctgatg aagctgcctt cttcgacact gcctcaactg gaaaaacatt 1620
cccaggtttc ttctcaccta tgttaggaga gtttgtcagt gagactgagt ctaggggctc 1680
agaatctggc atcttcacaa atacaaagga atccagttct catcaccctg ggatagctga 1740
attcccttcc cgtggtaaat cttcaagtta cagcaaacaa tttactagta gcacgagtta 1800
caacagagga gactccacat ttgaaagcaa gagctataaa atggcagatg aggccggaag 1860
tgaagccgat catgaaggaa cacatagcac caagagaggc catgctaaat ctcgccctgt 1920
cagaggtatc cacacttctc ctttggggaa gccttccctg tcccctaga ctaagttaaa 1980
tatttctgca cagtgttccc atggccctt gcatttcctt cttaactctc tgttacacgt 2040
```

```
cattgaaact acactttttt ggtctgtttt tgtgctagac tgtaagttcc ttgggggcag 2100
ggcctttgtc tgtctcatct ctgtattccc aaatgcctaa cagtacagag ccatgactca 2160
ataaatacat gttaaatgga tgaatgaatt cctctgaaac tctaaaaaaa aaaaaaaa   2218
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<210> 121
<211> 644
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 280276CD1

<400> 121

Met	Phe	Ser	Met	Arg	Ile	Val	Cys	Leu	Val	Leu	Ser	Val	Val	Gly
1				5					10					15
Thr	Ala	Trp	Thr	Ala	Asp	Ser	Gly	Glu	Gly	Asp	Phe	Leu	Ala	Glu
				20					25					30
Gly	Gly	Gly	Val	Arg	Gly	Pro	Arg	Val	Val	Glu	Arg	His	Gln	Ser
				35					40					45
Ala	Cys	Lys	Asp	Ser	Asp	Trp	Pro	Phe	Cys	Ser	Asp	Glu	Asp	Trp
				50					55					60
Asn	Tyr	Lys	Cys	Pro	Ser	Gly	Cys	Arg	Met	Lys	Gly	Leu	Ile	Asp
65					70					75				
Glu	Val	Asn	Gln	Asp	Phe	Thr	Asn	Arg	Ile	Asn	Lys	Leu	Lys	Asn
				80					85					90
Ser	Leu	Phe	Glu	Tyr	Gln	Lys	Asn	Asn	Lys	Asp	Ser	His	Ser	Leu
				95					100					105
Thr	Thr	Asn	Ile	Met	Glu	Ile	Leu	Arg	Gly	Asp	Phe	Ser	Ser	Ala
				110					115					120
Asn	Asn	Arg	Asp	Asn	Thr	Tyr	Asn	Arg	Val	Ser	Glu	Asp	Leu	Arg
				125					130					135
Ser	Arg	Ile	Glu	Val	Leu	Lys	Arg	Lys	Val	Ile	Glu	Lys	Val	Gln
				140					145					150
His	Ile	Gln	Leu	Leu	Gln	Lys	Asn	Val	Arg	Ala	Gln	Leu	Val	Asp
				155					160					165
Met	Lys	Arg	Leu	Glu	Val	Asp	Ile	Asp	Ile	Lys	Ile	Arg	Ser	Cys
				170					175					180
Arg	Gly	Ser	Cys	Ser	Arg	Ala	Leu	Ala	Arg	Glu	Val	Asp	Leu	Lys
				185					190					195
Asp	Tyr	Glu	Asp	Gln	Gln	Lys	Gln	Leu	Glu	Gln	Val	Ile	Ala	Lys
				200					205					210
Asp	Leu	Leu	Pro	Ser	Arg	Asp	Arg	Gln	His	Leu	Pro	Leu	Ile	Lys
				215					220					225
Met	Lys	Pro	Val	Pro	Asp	Leu	Val	Pro	Gly	Asn	Phe	Lys	Ser	Gln
				230					235					240
Leu	Gln	Lys	Val	Pro	Pro	Glu	Trp	Lys	Ala	Leu	Thr	Asp	Met	Pro
				245					250					255
Gln	Met	Arg	Met	Glu	Leu	Glu	Arg	Pro	Gly	Gly	Asn	Glu	Ile	Thr
				260					265					270
Arg	Gly	Gly	Ser	Thr	Ser	Tyr	Gly	Thr	Gly	Ser	Glu	Thr	Glu	Ser
				275					280					285
Pro	Arg	Asn	Pro	Ser	Ser	Ala	Gly	Ser	Trp	Asn	Ser	Gly	Ser	Ser
				290					295					300
Gly	Pro	Gly	Ser	Thr	Gly	Asn	Arg	Asn	Pro	Gly	Ser	Ser	Gly	Thr
				305					310					315

125

```
Gly Gly Thr Ala Thr Trp Lys Pro Gly Ser Ser Gly Pro Gly Ser
            320                 325                 330
Thr Gly Ser Trp Asn Ser Gly Ser Ser Gly Thr Gly Ser Thr Gly
            335                 340                 345
Asn Gln Asn Pro Gly Ser Pro Arg Pro Gly Ser Thr Gly Thr Trp
            350                 355                 360
Asn Pro Gly Ser Ser Glu Arg Gly Ser Ala Gly His Trp Thr Ser
            365                 370                 375
Glu Ser Ser Val Ser Gly Ser Thr Gly Gln Trp His Ser Glu Ser
            380                 385                 390
Gly Ser Phe Arg Pro Asp Ser Pro Gly Ser Gly Asn Ala Arg Pro
            395                 400                 405
Asn Asn Pro Asp Trp Gly Thr Phe Glu Glu Val Ser Gly Asn Val
            410                 415                 420
Ser Pro Gly Thr Arg Arg Glu Tyr His Thr Glu Lys Leu Val Thr
            425                 430                 435
Ser Lys Gly Asp Lys Glu Leu Arg Thr Gly Lys Glu Lys Val Thr
            440                 445                 450
Ser Gly Ser Thr Thr Thr Thr Arg Arg Ser Cys Ser Lys Thr Val
            455                 460                 465
Thr Lys Thr Val Ile Gly Pro Asp Gly His Lys Glu Val Thr Lys
            470                 475                 480
Glu Val Val Thr Ser Glu Asp Gly Ser Asp Cys Pro Glu Ala Met
            485                 490                 495
Asp Leu Gly Thr Leu Ser Gly Ile Gly Thr Leu Asp Gly Phe Arg
            500                 505                 510
His Arg His Pro Asp Glu Ala Ala Phe Phe Asp Thr Ala Ser Thr
            515                 520                 525
Gly Lys Thr Phe Pro Gly Phe Phe Ser Pro Met Leu Gly Glu Phe
            530                 535                 540
Val Ser Glu Thr Glu Ser Arg Gly Ser Glu Ser Gly Ile Phe Thr
            545                 550                 555
Asn Thr Lys Glu Ser Ser Ser His His Pro Gly Ile Ala Glu Phe
            560                 565                 570
Pro Ser Arg Gly Lys Ser Ser Ser Tyr Ser Lys Gln Phe Thr Ser
            575                 580                 585
Ser Thr Ser Tyr Asn Arg Gly Asp Ser Thr Phe Glu Ser Lys Ser
            590                 595                 600
Tyr Lys Met Ala Asp Glu Ala Gly Ser Glu Ala Asp His Glu Gly
            605                 610                 615
Thr His Ser Thr Lys Arg Gly His Ala Lys Ser Arg Pro Val Arg
            620                 625                 630
Gly Ile His Thr Ser Pro Leu Gly Lys Pro Ser Leu Ser Pro
            635                 640

<210> 122
<211> 1712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4675668CB1

<400> 122
ctttcttcag tccccacgtg cgatccttcc cggcaacttt ttcgagaaaa atgcccaaat 60
tcaaggcggc ccgtggggtg gggggtcagg aaaaacatgc gccctggcc gatcagatcc 120
```

126

```
tggctgggaa tgcggtgcgg gcggggggtcc gggagaagcg gcggggtcgc gggacaggag 180
aagcggagga agagtatgtg gggcccccggc tgagccgacg gattttgcag caagcacggc 240
agcaacagga ggaactcgag gccgagcatg ggactgggga caagcccgcg gcgccgcggg 300
aacgcaccac gcggctgggt ccaagaatgc ctcaggatgg atcagatgac gaggacgagg 360
agtggcccac cctggagaag gctgccacaa tgacagcagc gggccatcat gcagaggtgg 420
ttgtggaccc tgaggatgag cgtgccatag agatgttcat gaacaagaac cctcctgcca 480
ggcgcaccct ggctgacatc atcatggaga agctgactga gaagcagaca gaggttgaga 540
cagtcatgtc agaggtgtcg ggcttcccta tgccccagct ggaccccccgg gtcctagaag 600
tgtacagggg ggtccgggag gtattatcta agtaccgcag tggaaaactg cccaaggcat 660
ttaagatcat ccctgcactc tccaactggg agcaaatcct ctacgtcaca gagccggagg 720
cctggactgc agctgccatg taccaggcca ccaggatttt tgcctctaac ctgaaggaac 780
gcatggccca gcgcttctac aaccttgtcc tgctccctcg agtacgagat gacgttgctg 840
aatacaaacg actcaacttc atctctaca tggctctcaa gaaggccctt ttcaaacctg 900
gagcctggtt caaagggatc ctgattccac tgtgcgagtc tggcacttgt accctccggg 960
aagccatcat tgtgggtagc atcatcacca agtgctccat ccctgtgttg cactccagtg 1020
cggccatgct gaaaattgct gagatggaat acagcggtgc caacagcatc ttcctgcgac 1080
tgctgctgga taagaagtat gcactgcctt accgggtgct ggatgcccta gtcttccact 1140
tcctgggggtt ccggacagag aagcgtgaac tgcctgtgct gtggcaccag tgcctcctga 1200
ctttggtcca gcgctacaag gccgacttgg ccacagacca gaaagaggcc ctcttagaac 1260
tgctccggct gcagccccat ccacagctat cgcccgaaat caggcgtgag cttcagagtg 1320
cagtcccccg cgatgtggaa gatgttccca tcaccgtgga gtgaggaaaa cagtcagctg 1380
tcctggccaa aggggtttgg aaggacacca agacccccgt tggtgactga agatgacact 1440
gagctttaat ggctgaagac ccagatcagg gcagtgacag atcacaggga catctgtggc 1500
tcccagtcca ggacaggaag gactgagggt ctggctggtt ccctcttcca ttctaggccc 1560
ttatccctgt ttagttctga gagccaactt gagataccat atgctagcat tcccagtccc 1620
cagctggggc ttggtgtgag tactttttct atggctattg tgtcaggtca ctgtggataa 1680
aggcaaagac agatatttat tgaaaaaaaa aa                              1712
```

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<210> 123
<211> 437
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4675668CD1

<400> 123
Met Pro Lys Phe Lys Ala Ala Arg Gly Val Gly Gly Gln Glu Lys
1               5                   10                  15
His Ala Pro Leu Ala Asp Gln Ile Leu Ala Gly Asn Ala Val Arg
                20                  25                  30
Ala Gly Val Arg Glu Lys Arg Arg Gly Arg Gly Thr Gly Glu Ala
                35                  40                  45
Glu Glu Glu Tyr Val Gly Pro Arg Leu Ser Arg Arg Ile Leu Gln
                50                  55                  60
Gln Ala Arg Gln Gln Gln Glu Glu Leu Glu Ala Glu His Gly Thr
65                  70                  75
Gly Asp Lys Pro Ala Ala Pro Arg Glu Arg Thr Thr Arg Leu Gly
                80                  85                  90
Pro Arg Met Pro Gln Asp Gly Ser Asp Asp Glu Asp Glu Glu Trp
                95                  100                 105
Pro Thr Leu Glu Lys Ala Ala Thr Met Thr Ala Ala Gly His His
                110                 115                 120
Ala Glu Val Val Val Asp Pro Glu Asp Glu Arg Ala Ile Glu Met
                125                 130                 135
```

127

```
Phe Met Asn Lys Asn Pro Pro Ala Arg Arg Thr Leu Ala Asp Ile
            140                 145                 150
Ile Met Glu Lys Leu Thr Glu Lys Gln Thr Glu Val Glu Thr Val
            155                 160                 165
Met Ser Glu Val Ser Gly Phe Pro Met Pro Gln Leu Asp Pro Arg
            170                 175                 180
Val Leu Glu Val Tyr Arg Gly Val Arg Glu Val Leu Ser Lys Tyr
            185                 190                 195
Arg Ser Gly Lys Leu Pro Lys Ala Phe Lys Ile Ile Pro Ala Leu
            200                 205                 210
Ser Asn Trp Glu Gln Ile Leu Tyr Val Thr Glu Pro Glu Ala Trp
            215                 220                 225
Thr Ala Ala Ala Met Tyr Gln Ala Thr Arg Ile Phe Ala Ser Asn
            230                 235                 240
Leu Lys Glu Arg Met Ala Gln Arg Phe Tyr Asn Leu Val Leu Leu
            245                 250                 255
Pro Arg Val Arg Asp Asp Val Ala Glu Tyr Lys Arg Leu Asn Phe
            260                 265                 270
His Leu Tyr Met Ala Leu Lys Lys Ala Leu Phe Lys Pro Gly Ala
            275                 280                 285
Trp Phe Lys Gly Ile Leu Ile Pro Leu Cys Glu Ser Gly Thr Cys
            290                 295                 300
Thr Leu Arg Glu Ala Ile Ile Val Gly Ser Ile Ile Thr Lys Cys
            305                 310                 315
Ser Ile Pro Val Leu His Ser Ser Ala Ala Met Leu Lys Ile Ala
            320                 325                 330
Glu Met Glu Tyr Ser Gly Ala Asn Ser Ile Phe Leu Arg Leu Leu
            335                 340                 345
Leu Asp Lys Lys Tyr Ala Leu Pro Tyr Arg Val Leu Asp Ala Leu
            350                 355                 360
Val Phe His Phe Leu Gly Phe Arg Thr Glu Lys Arg Glu Leu Pro
            365                 370                 375
Val Leu Trp His Gln Cys Leu Leu Thr Leu Val Gln Arg Tyr Lys
            380                 385                 390
Ala Asp Leu Ala Thr Asp Gln Lys Glu Ala Leu Leu Glu Leu Leu
            395                 400                 405
Arg Leu Gln Pro His Pro Gln Leu Ser Pro Glu Ile Arg Arg Glu
            410                 415                 420
Leu Gln Ser Ala Val Pro Arg Asp Val Glu Asp Val Pro Ile Thr
            425                 430                 435
Val Glu
```

<210> 124
<211> 2177
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 153825.1

<400> 124

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gctgctgctc cagccgccgc cgctgctggc ccgggctctg ccgccggacg tccaccacct  60
ccatgccgag aggaggggggc cacagccctg ggcatgcagc cctgcccagt agcccggcac 120
ctgcccctgc cacgcaggaa gccccccggc ctgccagcag cctcaggcct ccccgctgtg 180
gcgtgcccga cccatctgat gggctgagtg cccgcaaccg acagaagagg ttcgtgcttt 240
```

```
ctggcgggcg ctgggagaag acggacctca cctacaggat ccttcggttc ccatggcagt 300
tggtgcagga gcaggtgcgg cagacgatgg cagaggccct aaaggtatgg agcgatgtga 360
cgccactcac ctttactgag gtgcacgagg gccgtgctga catcatgatc gacttcgcca 420
ggtactggca tggggacgac ctgccgtttg atgggcctgg gggcatcctg ggcccatgcc 480
ttcttcccca agactcaccg agaaggggat gtccacttcg actatgatga gacctggact 540
atcggggatg accagggcac agacctgctg caggtggcag cccatgaatt tggccacgtg 600
ctggggctgc agcacacaac agcagccaag gccctgatgt ccgccttcta cacctttcgc 660
tacccactga gtctcagccc agatgactgc aggggcgttc aacacctata tggccagccc 720
tggcccactg tcacctccag gaccccagcc ctgggccccc aggctgggat agacaccaat 780
gagattgcac cgctggagcc agacgccccg ccagatgcct gtgaggcctc ctttgacgcg 840
gtctccacca tccgaggcga gctctttttc ttcaaagcgg gctttgtgtg gcgcctccgt 900
gggggccagc tgcagcccgg ctacccagca ttggcctctc gccactggca gggactgccc 960
agccctgtgg acgctgcctt cgaggatgcc cagggccaca tttggttctt ccaaggtgct 1020
cagtactggg tgtacgacgg tgaaaagcca gtcctgggcc ccgcacccct caccgagctg 1080
ggcctggtga ggttcccggt ccatgctgcc ttggtctggg gtcccgagaa gaacaagatc 1140
tacttcttcc gaggcaggga ctactggcgt ttccacccca gcacccggcg tgtagacagt 1200
cccgtgcccc gcagggccac tgactggaga ggggtgccct ctgagatcga cgctgccttc 1260
caggatgctg atggctatgc ctacttcctg cgcggccgcc tctactggaa gtttgaccct 1320
gtgaaggtga aggctctgga aggcttcccc cgtctcgtgg gtcctgactt ctttggctgt 1380
gccgagcctg ccaacacttt cctctgacca tggcttggat gccctcaggg gtgctgaccc 1440
ctgccaggcc acgaatatca ggctagagac ccatggccat ctttgtggct gtgggcacca 1500
ggcatgggac tgagcccatg tctcctcagg gggatggggt ggggtacaac caccatgaca 1560
actgccggga gggccacgca ggtcgtggtc acctgccagc gactgtctca gactgggcag 1620
ggaggctttg gcatgactta agaggaaggg cagtcttggg cccgctatgc aggtcctggc 1680
aaacctggct gccctgtctc catccctgtc cctcagggta gcaccatggc aggactgggg 1740
gaactggagt gtccttgctg tatccctgtt gtgaggttcc ttccagggcc tggcactgaa 1800
gcaagggtgc tggggcccca tggccttcag ccctggctga gcaactgggc tgtagggcag 1860
ggccacttcc tgaggtcagg tcttggtagg tgcctgcatc tgtctgcctt ctggctgaca 1920
atcctggaaa tctgttctcc agaatccagg ccaaaaagtt cacagtcaaa tggggagggg 1980
tattcttcat gcaggagacc ccaggccctg gaggctgcaa catacctcaa tcctgtccca 2040
ggccggatcc tcctgaagcc cttttcgcag cactgctatc ctccaaagcc attgtaaatg 2100
tgtgtacagt gtgtataaac cttcttcttc tttttttttt ttaaactgag gattgtcatt 2160
aaacacagtt gtttttct                                              2177
```

<210> 125
<211> 2230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 403484.2c

<400> 125
```
tttttttttt tttttgggtg gagattttcc tttatttgat tttattttgg agaggaaggg 60
ctagagcaaa aagatgatgc caacacaccg ggcactagaa tgacccctgc acatgcagaa 120
cacacggaca ctcaagctgg attagtgact gagcaaatgt gccccgtgga gagaatgtca 180
ccagagctgc aaaagccccc cgaccccagc ttttattagt tttaagaccc ccaaccacac 240
ccaccccagg tctccttgtt ttcagtaagc agacctccta gcaaactggg cttttactcc 300
tgtgggctca gtgccacatc ccctcaaata aacatgcatc ctctagagca aaagggaaat 360
tgacaggatg ctggaacgcc gagagatggg atgctttatt tttcattatc caccagcttg 420
ggagaaaggc caccttccat cgcaccagtg agaggcggga aagagcgatc gggccctttc 480
ccgtctctca ggccttgtgc aacatggccc tggctgctca ctccagccct gcctgacttt 540
aaacaaaccc agtcagtacc cttccacctc ttgccttggg aagaagacat ttgagagctc 600
acagatatag tgcaaccggt tatccaaacc aacatgttct cttgctcagc ttctgttcta 660
tccaaaggtc tcatcctgct cccccaaggg gatttctgat atctgaaaac cccaaacctg 720
```

129

```
actccaggcc tccccagcaa cgtgtgagcc ccatggaatg tatttatttc attgcaacaa 780
cccctcacaa cccggccttc ctgcatttcc cgagcggtct tgggtttttc tcagcatctc 840
tcccggtggc gtgttgtggt gccctgactt ggaggtgtgc agggtggcag gggaagtatc 900
aggtgccttt gctttctgtc ctctcctcgt cagccgtctg agcgttgctg acagcgcgaa 960
gctgcccctg ggctgcaggc ttcaccgaca ggaccaagcg tttgcggaac gtctcacaga 1020
gcacgatgta cacaaagggg ttgaggcagc tgttggcata gcccaagctg atggccgcat 1080
tgtataagta gacaaaggtg agggtcgggc ggctgatgga caactgggtc agctgtagca 1140
catagtaggg tgcccagcac acaaagaaga ccagacagat ggcgatggct gtgcgggtca 1200
ccctctttgt ccgcagccgg atgctgcgct gggaggtggg ggccactgag gacgtcatgc 1260
gctgcaggat cctcacgtat gcggctgtga tgaccacaaa aggcagggca aaggccagga 1320
aaaactggta cagggtgaac cagtagaggt cagtgtctgg gttgggcagg cgtatgccgc 1380
agcccactgc acctcctggg aaggggatga gtctggcata cagccacaca ggggtgatgc 1440
tgatgaagga gagggcccac aggaggcaga tcaccagggt ggccacagag ggcttccgga 1500
acttcgtgga agagatgggg tggacagtgg ccaggtagcg gtcaatggcc atggcggtca 1560
ggatgtaggt gctggtgaac tgactattgg catccatggc cgtgatgagg gtgcacatgg 1620
tctcccccaaa gtgccacacc ccattgccca tgagctggtg gatcatgaag ggcatgccca 1680
ggagaaagag gagatctact accgagaggt tgatgatgaa gatgtcgggg acgttgttgc 1740
accagtgcag cttggacttc ttcacgaccg cgaagatgac cgtggagttc ccgatgatgc 1800
ccaggaggca gatggtgccg aacaccgaag gcatgatgat gttgatgtag gagatgctcc 1860
ccgtgcgagg aggtgatcct ggggacagaa ggagcaagcg ttggctgttt gacatgggct 1920
ttgctctgag aactgacatc ctgctggcat gctcagcctc cagcgaccca ccgttcatct 1980
ggaatcctct cccaccattc tccctccctt cactgttgct aatcttgtcc ctttcccctt 2040
ctccatgagt ttcctggtga atcctaccag agtgccctga gccatctgtc ttggaaggac 2100
acaacatgcc tgcctcctgc aggcaccaga ggcaagaacc acagttgtct gcagagatta 2160
ctctgtgagc cccgggcttc accaggaaaa ctcgtcagca tagccagaag gacacaaaag 2220
taagtgtctg                                                      2230
```

```
<210> 126
<211> 2143
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432CB1

<400> 126
ttatgtctgg tcgactctga attgggcttg gaggcggcac ggctgccagg ctacggaggt 60
agacccccctt cccaactgcg gggcttgcgc tccgggacaa ggtggcaggc gctggaggct 120
gccgcagcct gcgtgggtgg aggggagctc agctcggttg tggcagcatg cgaccggcac 180
tggctggatg gacctggaag cctcgctgct gcccactggt cccaatgcca gcaacacctc 240
tgatggcccc gataacctca cttcggcagg atcacctcct cgcacgggga gcatctccta 300
catcaacatc atcatgcctt cggtgttcgg caccatctgc ctcctgggca tcatcgggaa 360
ctccacggtc atcttcgcgg tcgtgaagaa gtccaagctg cactgtggca acaacgtccc 420
cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgccctt 480
catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgcaccct 540
catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgccatggc 600
cattgaccgc tacctggcca ctgtccaccc catctcttcc acgaagttcc ggaagccctc 660
tgtggccacc ctggtgatct gcctcctgtg ggccctctcc ttcatcagca tcaccccctgt 720
gtggctgtat gccagactca tccccttccc aggaggtgca gtgggctgcg catacgcct 780
gcccaaccca gacactgacc tctactggtt caccctgtac cagttttttcc tggcctttgc 840
cctgcctttt gtggtcatca gccgcata cgtgaggatc ctgcagcgca tgacgtcctc 900
agtggccccc acctcccagc gcagcatccg gctgcggaca aagagggtga cccgcacagc 960
catcgccatc tgtctggtct tctttgtgtg ctgggcaccc tactatgtgc tacagctgac 1020
ccagttgtcc atcagccgcc cgacccccac ctttgtctac ttatacaatg cggccatcag 1080
cttgggctat gccaacagct gcctcaaccc gtttgtgtac atcgtgctct gtgagacgtt 1140
```

```
ccgcaaacgc ttggtcctgt cggtgaagcc tgcagcccag gggcagcttc gcgctgtcag 1200
caacgctcag gcggctgacg aggagaggac agaaagcaaa ggcacctgat acttcccctg 1260
ccaccctgca cacctccaag tcagggcacc acaacacgcc accgggagag atgctgagaa 1320
aaacccaaga ccgctcggga aatgcaggaa ggccgggttg tgaggggttg ttgcaatgaa 1380
ataaatacat tccatggggc tcacacgttg ctggggaggc ctggagtcag gtttggggtt 1440
ttcagatatc agaaatcccc ttggggagc aggatgagac ctttggatag aacagaagct 1500
gagcaagaga acatgttggt ttggataacc ggttgcacta tatctgtgag ctctcaaatg 1560
tcttcttccc aaggcaagag gtggaagggt actgactggg tttgtttaaa gtcaggcagg 1620
gctggagtga gcagccaggg ccatgttgca caaggcctga gagacgggaa agggcccgat 1680
cgctctttcc cgcctctcac tggtgcgatg gaaggtggcc tttctcccaa gctggtggat 1740
aatgaaaaat aaagcatccc atctctcggc gttccagcat cctgtcaatt tcccttttgc 1800
tctagaggat gcatgtttat ttgagggggat gtggcactga gcccacagga gtaaaagccc 1860
agtttgctag gaggtctgct tactgaaaac aaggagacct ggggtggggtg tggttggggg 1920
tcttaaaact aataaaagct ggggtcgggg ggcttttgca gctctggtga cattctctcc 1980
acggggcaca tttgctcagt cactaatcca gcttgagtgt ccgtgtgttc tgcatgtgca 2040
ggggtcattc tagtgcccgg tgtgttggca tcatcttttt gctctagccc ttcctctcca 2100
aaataaaatc aaataaagga aaatctccac ccaaaaaaaa aaa                    2143
```

<210> 127
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432CD1

<400> 127
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Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly Pro Asn Ala Ser
1               5                   10                  15
Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala Gly Ser Pro
            20                  25                  30
Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met Pro Ser
        35                  40                  45
Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr
    50                  55                  60
Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
65                  70                  75
Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu
            80                  85                  90
Leu Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly
            95                  100                 105
Asn Gly Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr
            110                 115                 120
Ala Met Asp Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr
            125                 130                 135
Ala Met Ala Ile Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser
            140                 145                 150
Ser Thr Lys Phe Arg Lys Pro Ser Val Ala Thr Leu Val Ile Cys
            155                 160                 165
Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr Pro Val Trp Leu
            170                 175                 180
Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val Gly Cys Gly
            185                 190                 195
Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe Thr Leu
            200                 205                 210
```

131

```
Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
            215                 220                 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
            230                 235                 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
            245                 250                 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala
            260         .       265                 270
Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro
            275                 280                 285
Thr Pro Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly
            290                 295                 300
Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
            305                 310                 315
Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala
            320                 325                 330
Gln Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Ala Ala Asp Glu
            335                 340                 345
Glu Arg Thr Glu Ser Lys Gly Thr
            350
```

<210> 128
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1096583.1

<400> 128
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tgtattaacc atgttaaagc atggttaaaa ctgagctcag gagtctgcca ggaaaaggac 60
agaccctgtg ctttcatgaa agtgaagatc tggctgaacc agttccacaa ggttactgta 120
tacatagcct gagtttaaac ggcagggttt ggctagttct aacttgctga agccagtcag 180
caccctcaca gagccagcta ggtactgggc ccagggggctt ccagagagtt cttcagagct 240
tctcagaggc ctgctagggt taggaggtcc ttaggcctct gagaagctct gaagaactct 300
ctggaagccc ctgggcccag tacctagctg gctctgtgag ggtgctgact ggcttcagca 360
agttagaact agccaaacca ggaccctgtc caatctttga caattgggag ctgccaagag 420
tgaa                                                             424
```

<210> 129
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 516300CB1

<400> 129
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caagaacatc atttaaatac acaatttttc attctctttt tttgctaaat ttcttcatac 60
tcaactttca gattctttaa tctccagctc agcttcaaca attcaacgct gttctttctg 120
aaaaagtaca catcgtgcct tctctacttc gctcttggaa cataatttct catggcagtg 180
tttaagacca ctctgtggag gttaatttct gggaccttag ggataatatg cctttcgttg 240
atggctacgt tgggaatttt gttgaaaaat tcttttacta aactgagtat tgagccagca 300
tttactccag gacccaacat agaactccag aaagactctg actgctgttc ttgccaagaa 360
aaatgggttg ggtaccggtg caactgttac ttcatttcca gtgaacagaa aacttggaac 420
```

```
gaaagtcggc atctctgtgc ttctcagaaa tccagcctgc ttcagcttca aaacacagat 480
gaactggatt ttatgagctc cagtcaacaa ttttactgga ttggactctc ttacagtgag 540
gagcacaccg cctggttgtg ggagaatggc tctgcactct cccagtatct atttccatca 600
tttgaaactt ttaatacaaa gaactgcata gcgtataatc caaatggaaa tgctttagat 660
gaatcctgtg aagataaaaa tcgttatatc tgtaagcaac agctcattta aatgtttctt 720
ggggcagaga aggtggagag taaagaccca acattactaa caa              763
```

<210> 130
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 516300CD1

<400> 130
```
Met Ala Val Phe Lys Thr Thr Leu Trp Arg Leu Ile Ser Gly Thr
 1               5                  10                  15
Leu Gly Ile Ile Cys Leu Ser Leu Met Ala Thr Leu Gly Ile Leu
                20                  25                  30
Leu Lys Asn Ser Phe Thr Lys Leu Ser Ile Glu Pro Ala Phe Thr
                35                  40                  45
Pro Gly Pro Asn Ile Glu Leu Gln Lys Asp Ser Asp Cys Cys Ser
                50                  55                  60
Cys Gln Glu Lys Trp Val Gly Tyr Arg Cys Asn Cys Tyr Phe Ile
            65                  70                  75
Ser Ser Glu Gln Lys Thr Trp Asn Glu Ser Arg His Leu Cys Ala
                80                  85                  90
Ser Gln Lys Ser Ser Leu Leu Gln Leu Gln Asn Thr Asp Glu Leu
                95                 100                 105
Asp Phe Met Ser Ser Ser Gln Gln Phe Tyr Trp Ile Gly Leu Ser
               110                 115                 120
Tyr Ser Glu Glu His Thr Ala Trp Leu Trp Glu Asn Gly Ser Ala
               125                 130                 135
Leu Ser Gln Tyr Leu Phe Pro Ser Phe Glu Thr Phe Asn Thr Lys
               140                 145                 150
Asn Cys Ile Ala Tyr Asn Pro Asn Gly Asn Ala Leu Asp Glu Ser
               155                 160                 165
Cys Glu Asp Lys Asn Arg Tyr Ile Cys Lys Gln Gln Leu Ile
               170                 175
```
<210> 131
<211> 1449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 627856CB1

<400> 131
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ggcccgctgc gctgagacac tgaaggggtg tccgggagct gctgaaagcg tgtagacctc 60
gcgacggtcc cgcggtagac atcgatataa gaagtaatgg gctgccacag agcccaaatt 120
ccctgctgtt cgactggctt tgcagaattt tgacatgact tacagtgtgc agtttggaga 180
tctttggcca tcaatccgtg tcagtctcct ctcagagcag aagtatggtg cactggtcaa 240
taactttgct gcctgggatc atgtaagtgc taagctggag cagctgagtg ccaaggattt 300
```

133

```
tgtgaatgaa gccatctccc actgggaact gcagtctgag ggtggccaat ctgcagcccc 360
atcccctgcc tcctgggcct gcagtccgaa ccttcgatgc ttcacttttg acagaaggga 420
taacagtcgc ttccctcctg ccagagtttg tgatcctacg agatgagaaa tggggtggaa 480
acaaaaccta cacagcttac gtggacctgg aaaaggactt tgctgctgaa gttgtacatc 540
ctggagacct gaagaattct gttgaagtcg cactgaacaa gttgctggat ccaatccggg 600
aaaagtttaa tacccctgcc ctgaaaaaac tggccagcgc tgcctaccca gatccctcaa 660
agcagaagcc aatggccaaa ggccctgcca agaattcaga accagaggag gtcatcccat 720
cccggctgga tatccgtgtg gggaaaatca tcactgtgga gaagcaccca gatgcagaca 780
gcctgtatgt agagaagatt gacgtggggg aagctgaacc acggactgtg gtgagcggcc 840
tcgtacagtt cgtgcccaag gaggaactgc aggacaggct ggtagtggtg ctgtgcaacc 900
tgaaacccca gaagatgaga ggagtcgagt cccaaggcat gcttctgtgt gcttctatag 960
aagggataaa ccgccaggtt gaacctctgg accctccggc aggctctgct cctggtgagc 1020
acgtgtttgt gaagggctat gaaaagggcc aaccagatga ggagctcaag cccaagaaga 1080
aagtcttcga gaagttgcag gctgacttca aaatttctga ggagtgcatc gcacagtgga 1140
agcaaaccaa cttcatgacc aagctgggct ccatttcctg taaatcgctg aaagggggga 1200
acattagcta gccagcccag catcttcccc ccttcttcca ccactgagtc atctgctgtc 1260
tcttcagtct gctccatcca tcacccattt acccatctct caggacacgg aagcagcggg 1320
tttggactct ttattcggtg cagaactcgg caaggggcag cttaccctcc ccagaaccca 1380
gggatcatcc tgtctggctg cagtgagaga ccaaccccta caagggctg ggccacagca 1440
gggagtcca                                                    1449
```

<210> 132
<211> 301
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 627856CD1

<400> 132
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Met Lys Pro Ser Pro Thr Gly Asn Cys Ser Leu Arg Val Ala Asn
 1               5                   10                  15
Leu Gln Pro His Pro Leu Pro Pro Gly Pro Ala Val Arg Thr Phe
                20                  25                  30
Asp Ala Ser Leu Leu Thr Glu Gly Ile Thr Val Ala Ser Leu Leu
                35                  40                  45
Pro Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys
                50                  55                  60
Thr Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu
                65                  70                  75
Val Val His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu
                80                  85                  90
Asn Lys Leu Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala
                95                  100                 105
Leu Lys Lys Leu Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln
                110                 115                 120
Lys Pro Met Ala Lys Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu
                125                 130                 135
Val Ile Pro Ser Arg Leu Asp Ile Arg Val Gly Lys Ile Ile Thr
                140                 145                 150
Val Glu Lys His Pro Asp Ala Asp Ser Leu Tyr Val Glu Lys Ile
                155                 160                 165
Asp Val Gly Glu Ala Glu Pro Arg Thr Val Val Ser Gly Leu Val
                170                 175                 180
Gln Phe Val Pro Lys Glu Glu Leu Gln Asp Arg Leu Val Val Val
```

134

```
                    185                   190                   195
Leu Cys Asn Leu Lys Pro Gln Lys Met Arg Gly Val Glu Ser Gln
                    200                   205                   210
Gly Met Leu Leu Cys Ala Ser Ile Glu Gly Ile Asn Arg Gln Val
                    215                   220                   225
Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala Pro Gly Glu His Val
                    230                   235                   240
Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp Glu Glu Leu Lys
                    245                   250                   255
Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp Phe Lys Ile
                    260                   265                   270
Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr
                    275                   280                   285
Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile
                    290                   295                   300
Ser
```

```
<210> 133
<211> 3482
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1823159CB1

<400> 133
gggataggga ccgtcatttg cctagaagat tttgactctg gattgggcag cctgccccaa 60
tttgaatcct ggacctaata ttatctgtgt gactttaggc aagagtttcc aggatggctt 120
ctgcatcaac ttctaaatat aattcacact ccttggagaa tgagtctatt aagaggacgt 180
ctcgagatgg agtcaatcga gatctcactg aggctgttcc tcgacttcca ggagaaacac 240
taatcactga caaagaagtt atttacatat gtcctttcaa tggccccatt aagggaagag 300
tttacatcac aaattatcgt ctttatttaa gaagtttgga aacggattcc tctctaatac 360
ttgatgttcc tctgggtgtg atctcgagaa ttgaaaaaat gggaggcgcg acaagtagag 420
gagaaaattc ctatggtcta gatattactt gtaaagacat gagaaacctg aggttcgctt 480
tgaaacagga aggccacagc agaagagata tgtttgagat cctcacgaga tacgcgtttc 540
ccctggctca cagtctgcca ttatttgcat ttttaaatga agaaaagttt aacgtggatg 600
gatggacagt ttacaatcca gtggaagaat acaggaggca gggcttgccc aatcaccatt 660
ggagaataac tttattaat aagtgctatg agctctgtga cacttaccct gctcttttgg 720
tggttccgta tcgtgcctca gatgatgacc tccggagagt tgcaactttt aggtcccgaa 780
atcgaattcc agtgctgtca tggattcatc cagaaaataa gacggtcatt gtgcgttgca 840
gtcagcctct tgtcggtatg agtgggaaac gaaataaaga tgatgagaaa tatctcgatg 900
ttatcaggga gactaataaa caaatttcta aactcaccat ttatgatgca agacccagcg 960
taaatgcagt ggccaacaag caacaggag gaggatatga aagtgatgat gcatatcata 1020
acgccgaact tttcttctta gacattcata atattcatgt tatgcgggaa tctttaaaaa 1080
aagtgaagga cattgtttat cctaatgtag aagaatctca ttggttgtcc agtttggagt 1140
ctactcattg gttagaacat atcaagctcg ttttgacagg agccattcaa gtagcagaca 1200
aagtttcttc agggaagagt tcagtgcttg tgcattgcag tgacggatgg gacaggactg 1260
ctcagctgac atccttggcc atgctgatgt tggatagctt ctataggagc attgaagggt 1320
tcgaaatact ggtacaaaaa gaatggataa gttttggaca taaatttgca tctcgaatag 1380
gtcatggtga taaaaaccac accgatgctg accgttctcc tatttttctc cagtttattg 1440
attgtgtgtg gcaaatgtca aaacagttcc ctacagcttt tgaattcaat gaacaatttt 1500
tgattataat tttggatcat ctgtatagtt gccgatttgg tactttctta ttcaactgtg 1560
aatctgctcg agaaagacag aaggttacag aaaggactgt ttctttatgg tcactgataa 1620
acagtaataa agaaaaattc aaaaacccct ctatactaa agaaatcaat cgagtttat 1680
atccagttgc cagtatgcgt cacttggaac tctgggtgaa ttactacatt agatggaacc 1740
```

135

```
ccaggatcaa gcaacaacag ccgaatccag tggagcagcg ttacatggag ctcttagcct 1800
tacgcgacga atacataaag cggcttgagg aactgcagct cgccaactct gccaagcttt 1860
ctgatccccc aacttcacct tccagtcctt cgcaaatgat gccccatgtg caaactcact 1920
tctgagggggg gaccctggca ccgcattaga gctcgaaata aaggcgatag ctgactttca 1980
tttggggcat ttgtaaaaag tagattaaaa tatttgcctc catgtagaac ttgaactaac 2040
ataatcttaa actcttgaat atgtgccttc tagaatacat attacaagaa aactacaggg 2100
tccacacggc aatcagaaga aaggagctga gatgaggttt tggaaaaccc tgacacctttt 2160
aaaaagcagt ttttgaaaga caaaatttag atttaattta cgtcttgaga aatactatat 2220
atacaatata tattttgtgg gcttaattga aacaacatta ttttaaaatc aaaggggata 2280
tatgtttgtg gaatggatttt tcctgaagct gcttaacagt tgctttggat tctctaagat 2340
gaatccaaat gtgaaagatg catgttactg ccaaaaccaa attgagctca gcttcctagg 2400
cattacccaa aagcaaggtg tttaagtaat tgccagcttt tataccatca tgagtggtga 2460
cttaaggaga aatagctgta tagatgagtt tttcattatt tggaaattta ggggtagaaa 2520
atgtttttccc ctaattttcc agagaagcct attttttatat ttttaaaaaa ctgacagggc 2580
ccagttaaat atgatttgca ttttttaaat ttgccagttt tattttctaa attctttcat 2640
gagcttgcct aaaattcgga atggtttttcg ggttgtggca aaccccaaag agagcactgt 2700
ccaaggatgt cgggagcatc ctgctgctta ggggaatgtt ttcgcaaatg ttgctctagt 2760
cagtccagct catctgccaa aatgtagggc taccgtcttg gatgcatgag ctattgctag 2820
agcatcatcc ttagaaatca gtgccccaga tgtacatgtg ttgagcgtat tcttgaaagt 2880
attgtgttta tgcatttcaa tttcaatggt gttggcttcc cctccccacc ccacgcgtgc 2940
ataaaaactg gttctacaaa tttttacttg aagtaccagg ccgtttgctt tttcaggttg 3000
ttttgtttta tagtattaag tgaaatttta aatgcacagt tctatttgct atctgaacta 3060
attcatttat taagtatatt tgtaaaagct aaggctcgag ttaaaacaat gaagtgtttt 3120
acaatgattt gtaaaggact atttataact aatatggttt tgttttcaat gaattaagaa 3180
agattaaata tatctttgta aattattttta tgtcatagtt taattggtct accaagtaag 3240
acatctcaaa tacagtagta taatgtatga attttgtaag tataagaaat tttattagac 3300
attctcttac ttttttgtaaa tgctgtaaat atttcataaa ttaacaaagt gtcactccat 3360
aaaaagaaag ctaatactaa tagcctaaaa gattttgtga aatttcatga aaacttttta 3420
atggcaataa tgactaaaga cctgctgtaa taaatgtatt aactgaaacc taaaaaaaaa 3480
aa                                                                3482
```

```
<210> 134
<211> 603
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1823159CD1

<400> 134
Met Ala Ser Ala Ser Thr Ser Lys Tyr Asn Ser His Ser Leu Glu
1               5                   10                  15
Asn Glu Ser Ile Lys Arg Thr Ser Arg Asp Gly Val Asn Arg Asp
                20                  25                  30
Leu Thr Glu Ala Val Pro Arg Leu Pro Gly Glu Thr Leu Ile Thr
                35                  40                  45
Asp Lys Glu Val Ile Tyr Ile Cys Pro Phe Asn Gly Pro Ile Lys
                50                  55                  60
Gly Arg Val Tyr Ile Thr Asn Tyr Arg Leu Tyr Leu Arg Ser Leu
                65                  70                  75
Glu Thr Asp Ser Ser Leu Ile Leu Asp Val Pro Leu Gly Val Ile
                80                  85                  90
Ser Arg Ile Glu Lys Met Gly Gly Ala Thr Ser Arg Gly Glu Asn
                95                  100                 105
Ser Tyr Gly Leu Asp Ile Thr Cys Lys Asp Met Arg Asn Leu Arg
```

136

```
                    110                     115                     120
Phe Ala Leu Lys Gln Glu Gly His Ser Arg Arg Asp Met Phe Glu
                    125                     130                     135
Ile Leu Thr Arg Tyr Ala Phe Pro Leu Ala His Ser Leu Pro Leu
                    140                     145                     150
Phe Ala Phe Leu Asn Glu Glu Lys Phe Asn Val Asp Gly Trp Thr
                    155                     160                     165
Val Tyr Asn Pro Val Glu Glu Tyr Arg Arg Gln Gly Leu Pro Asn
                    170                     175                     180
His His Trp Arg Ile Thr Phe Ile Asn Lys Cys Tyr Glu Leu Cys
                    185                     190                     195
Asp Thr Tyr Pro Ala Leu Leu Val Val Pro Tyr Arg Ala Ser Asp
                    200                     205                     210
Asp Asp Leu Arg Arg Val Ala Thr Phe Arg Ser Arg Asn Arg Ile
                    215                     220                     225
Pro Val Leu Ser Trp Ile His Pro Glu Asn Lys Thr Val Ile Val
                    230                     235                     240
Arg Cys Ser Gln Pro Leu Val Gly Met Ser Gly Lys Arg Asn Lys
                    245                     250                     255
Asp Asp Glu Lys Tyr Leu Asp Val Ile Arg Glu Thr Asn Lys Gln
                    260                     265                     270
Ile Ser Lys Leu Thr Ile Tyr Asp Ala Arg Pro Ser Val Asn Ala
                    275                     280                     285
Val Ala Asn Lys Ala Thr Gly Gly Gly Tyr Glu Ser Asp Asp Ala
                    290                     295                     300
Tyr His Asn Ala Glu Leu Phe Phe Leu Asp Ile His Asn Ile His
                    305                     310                     315
Val Met Arg Glu Ser Leu Lys Lys Val Lys Asp Ile Val Tyr Pro
                    320                     325                     330
Asn Val Glu Glu Ser His Trp Leu Ser Ser Leu Glu Ser Thr His
                    335                     340                     345
Trp Leu Glu His Ile Lys Leu Val Leu Thr Gly Ala Ile Gln Val
                    350                     355                     360
Ala Asp Lys Val Ser Ser Gly Lys Ser Ser Val Leu Val His Cys
                    365                     370                     375
Ser Asp Gly Trp Asp Arg Thr Ala Gln Leu Thr Ser Leu Ala Met
                    380                     385                     390
Leu Met Leu Asp Ser Phe Tyr Arg Ser Ile Glu Gly Phe Glu Ile
                    395                     400                     405
Leu Val Gln Lys Glu Trp Ile Ser Phe Gly His Lys Phe Ala Ser
                    410                     415                     420
Arg Ile Gly His Gly Asp Lys Asn His Thr Asp Ala Asp Arg Ser
                    425                     430                     435
Pro Ile Phe Leu Gln Phe Ile Asp Cys Val Trp Gln Met Ser Lys
                    440                     445                     450
Gln Phe Pro Thr Ala Phe Glu Phe Asn Glu Gln Phe Leu Ile Ile
                    455                     460                     465
Ile Leu Asp His Leu Tyr Ser Cys Arg Phe Gly Thr Phe Leu Phe
                    470                     475                     480
Asn Cys Glu Ser Ala Arg Glu Arg Gln Lys Val Thr Glu Arg Thr
                    485                     490                     495
Val Ser Leu Trp Ser Leu Ile Asn Ser Asn Lys Glu Lys Phe Lys
                    500                     505                     510
Asn Pro Phe Tyr Thr Lys Glu Ile Asn Arg Val Leu Tyr Pro Val
                    515                     520                     525
Ala Ser Met Arg His Leu Glu Leu Trp Val Asn Tyr Tyr Ile Arg
```

137

```
                     530                    535                    540
Trp Asn Pro Arg Ile Lys Gln Gln Gln Pro Asn Pro Val Glu Gln
                     545                    550                    555
Arg Tyr Met Glu Leu Leu Ala Leu Arg Asp Glu Tyr Ile Lys Arg
                     560                    565                    570
Leu Glu Glu Leu Gln Leu Ala Asn Ser Ala Lys Leu Ser Asp Pro
                     575                    580                    585
Pro Thr Ser Pro Ser Ser Pro Ser Gln Met Met Pro His Val Gln
                     590                    595                    600
Thr His Phe
```

```
<210> 135
<211> 1223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 232567.4

<400> 135
cgccgtctgc atggcactgc gctgggttgc ccgcctttag aggagaggct ctgcctggtg 60
cccggacgtg ggcgcggagg aaagcagccc tcggagattt cgaaagatcg cggtggccgc 120
gggcgtgctc cggtctggcg gattgcaaaa cgggcccgtc gggctggctg cgcctggagg 180
ccgcgcgggc tgggaactgc tggctccgtc aagcgaagaa cggccgctgc caggtcctgt 240
acaagaccga actgagcaag gaggagtgct gcagcaccgg ccggctgagc acctcgtgga 300
ccgaggagga cgtgaatgac aacacactct tcaagtggat gattttcaac gggggcgccc 360
ccaactgcat cccctgtaaa gaaacgtgtg agaacgtgga ctgtggacct gggaaaaaat 420
gccgaatgaa caagaagaac aaaccccgct gcgtctgcgc cccggattgt tccaacatca 480
cctggaaggg tccagtctgg aagggctgga tgggaaaacc taccgcaatg aatgtgcact 540
cctaaaggca agatgtaaag agcagccaga actggaagtc cagtaccaag gcagatgtaa 600
aaagacttgt cgggatgttt tctgtccagg cagctccaca tgtgtggtgg accagaccaa 660
taatgcctac tgtgtgacct gtaatcggat ttgcccagag cctgcttcct ctgagcaata 720
tctctgtggg aatgatggag tcacctactc cagtgcctgc cacctgagaa aggctacctg 780
cctgctgggc agatctattg gattagccta tgagggaaag tgtatcaaag caaagtcctg 840
tgaagatatc cagtgcactg gtgggaaaaa atgtttatgg gatttcaagg ttgggagagg 900
ccggtgttcc ctctgtgatg agctgtgccc tgacagtaag tcggatgagc ctgtctgtgc 960
cagtgacaat gccacttatg ccagcgagtg tgccatgaag gaagctgcct gctcctcagg 1020
tgtgctactg gaagtaaagc actccggatc ttgcaactcc atttcggaag acaccgagga 1080
agaggaggaa gatgaagacc aggactacag ctttcctata tcttctattc tagagtggta 1140
aactctctat aagtgttcag tgttgacata gcctttggct ttttcacagt cacgacggtg 1200
taaatcacgc acgacgcggc gta                                       1223
```

```
<210> 136
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 218419.1

<220>
<221> unsure
<222> 32, 34, 40, 58, 91, 110, 120, 123, 125, 144, 150
<223> a, t, c, g, or other
```

<400> 136

```
ctcaagggga ttaattccca ttccttcctt tnangtggan atccatcatc tcagtgtngg 60
gaggcactgc tgttaaattc tctgccctct ncaaacagcc atctgtctgn gaactccctn 120
aantngctgc tatccaggat gacngtgttn ctgcagtctt tgagtggtta gagcgctgta 180
atgtctatgt taatagctgg gaaatcgcag tagcagcaac cagaccactc caatggaaca 240
atccaagttg gggtaagttt gattgagcaa aaaagtcatg ctgactgtgt gatgaagagg 300
cagaactggt aacagtgaca ggccctgcag tcagcagctg tggattttat gtgcagggca 360
gactgatctg gaaaatggga agagctgact gccaataaca ccttgggggg aggtttgttc 420
aagtgcatct ccctactcct ttgtatacct ctggattgac atgcagaagc ttaggaaata 480
aaacacactt gtaacatcac agggtgcaag taagtacatg tggatgccca gtgtagagag 540
aagcgaaagc tagttttcat tgcaagaatc caaacagagt aacagggctt tgtccactgt 600
ctccagtcca tggttccctg gtgttcctag agtcctatta aaaaaaaa 648
```

<210> 137
<211> 1197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1630551CB1

<400> 137

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gccgcgcgga ggaggccaag atggcggcag ctgcggcttc gcttcgcggg gtagtgttgg 60
gcccgcgggg cgcggggctc ccgggcgcgc gtgcccgggg tctgctgtgc agcgcgcggc 120
ccgggcagct cccgctacgg acacctcagg cagtggcctt gtcgtcgaag tctggccttt 180
cccgaggccg gaaagtgatg ctgtcagcgc tgggcatgct ggcggcaggg ggtgcggggc 240
tggccgtggc tctgcattcg gctgtgagtg ccagtgacct ggagctgcac ccccccagct 300
atccgtggtc tcaccgtggc ctcctctctt ccttggacca caccagcatc cggaggggtt 360
tccaggtata taagcaggtg tgcgcctcct gccacagcat ggacttcgtg cctaccgcc 420
acctggtggg cgtgtgctac acggaggatg aagctaagga ctggctgcg gaggtggag 480
ttcaagacgg ccccaatgaa gatggggaga tgttcatgcg ccagggaag ctgttcgact 540
atttcccaaa accatacccc aacagtgagg ctgctcgagc tgccaacaac ggagcattgc 600
cccctgacct cagctacatc gtgcgagcta ggcatggtgg tgaggactac gtcttctccc 660
tgctcacggg ctactgcgag ccacccaccg gggtgtcact gcgggaaggt ctctacttca 720
accctactt tcctggccag gccattgcca tggcccctcc catctacaca gatgtcttag 780
agtttgacga tggcacccca gctaccatgt cccagatagc caaggatgtg tgcaccttcc 840
tgcgctgggc atctgagcca gagcacgacc atcgaaacg catggggctc aagatgttga 900
tgatgatggc tctgctggtg ccctggtct acaccataaa gcggcacaag tggtcagtcc 960
tgaagagtcg gaagctggca tatcggccgc caagtgacc ctgtccagtg tctgcttgcc 1020
atcctgccag aacaggccct caagcccaag agccatccca ggcctgttca ggcctcagct 1080
aagcctctct tcatctggaa gaagaggcaa gggggcagga gaccaggctc tagctctggg 1140
ccctccttca gcccccatca tgggaataaa ttaatttct caatgtaaaa aaaaaa 1197
```

<210> 138
<211> 325
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1630551CD1

<400> 138

```
Met Ala Ala Ala Ala Ala Ser Leu Arg Gly Val Val Leu Gly Pro
1               5               10                  15
```

```
Arg Gly Ala Gly Leu Pro Gly Ala Arg Ala Arg Gly Leu Leu Cys
              20              25              30
Ser Ala Arg Pro Gly Gln Leu Pro Leu Arg Thr Pro Gln Ala Val
              35              40              45
Ala Leu Ser Ser Lys Ser Gly Leu Ser Arg Gly Arg Lys Val Met
              50              55              60
Leu Ser Ala Leu Gly Met Leu Ala Ala Gly Gly Ala Gly Leu Ala
              65              70              75
Val Ala Leu His Ser Ala Val Ser Ala Ser Asp Leu Glu Leu His
              80              85              90
Pro Pro Ser Tyr Pro Trp Ser His Arg Gly Leu Leu Ser Ser Leu
              95             100             105
Asp His Thr Ser Ile Arg Arg Gly Phe Gln Val Tyr Lys Gln Val
             110             115             120
Cys Ala Ser Cys His Ser Met Asp Phe Val Ala Tyr Arg His Leu
             125             130             135
Val Gly Val Cys Tyr Thr Glu Asp Glu Ala Lys Glu Leu Ala Ala
             140             145             150
Glu Val Glu Val Gln Asp Gly Pro Asn Glu Asp Gly Glu Met Phe
             155             160             165
Met Arg Pro Gly Lys Leu Phe Asp Tyr Phe Pro Lys Pro Tyr Pro
             170             175             180
Asn Ser Glu Ala Ala Arg Ala Ala Asn Asn Gly Ala Leu Pro Pro
             185             190             195
Asp Leu Ser Tyr Ile Val Arg Ala Arg His Gly Gly Glu Asp Tyr
             200             205             210
Val Phe Ser Leu Leu Thr Gly Tyr Cys Glu Pro Pro Thr Gly Val
             215             220             225
Ser Leu Arg Glu Gly Leu Tyr Phe Asn Pro Tyr Phe Pro Gly Gln
             230             235             240
Ala Ile Ala Met Ala Pro Pro Ile Tyr Thr Asp Val Leu Glu Phe
             245             250             255
Asp Asp Gly Thr Pro Ala Thr Met Ser Gln Ile Ala Lys Asp Val
             260             265             270
Cys Thr Phe Leu Arg Trp Ala Ser Glu Pro Glu His Asp His Arg
             275             280             285
Lys Arg Met Gly Leu Lys Met Leu Met Met Met Ala Leu Leu Val
             290             295             300
Pro Leu Val Tyr Thr Ile Lys Arg His Lys Trp Ser Val Leu Lys
             305             310             315
Ser Arg Lys Leu Ala Tyr Arg Pro Pro Lys
             320             325
```

<210> 139
<211> 2100
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 360961.19

<400> 139
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attttttgatg gttacttaaa attttggcta ctacattttt ttcaggcttt ctgaaaccta 60
catgtgaatc atcggaggat atttgctgaa tgaattcaga ataggcaacc taatccactt 120
ggaaagcact aggcgtaaag tagcttaaat cctgtaattt cagggtgatg ctggtttgac 180
tggacggaaa atcattgtgg acacttatgg cggttggggt gctcatggag gaggtgcctt 240
```

```
ttcaggaaag gattatacca aggtcgaccg ttcagctgct tatgctgctc gttgggtggc 300
aaaatccctt gttaaaggag gtctgtgccg gagggttctt gttcaggtat acactcttta 360
tataacgaac gattaaaagt catgtaagtg ggagggtatt tagtagtaat ctacttaact 420
acttgtttta taccaacgta ttatacaagt atatgggtct ttgcaatcac tgattcttac 480
gacatttgaa tccttttagg tctcttatgc tattggagtt tctcatccat tatctatctc 540
cattttccat tatggtacct ctcagaagag tgagagagag ctattagaga ttgtgaagaa 600
gaatttcgat ctccgccctg gggtcattgt caggtaaaga tggtaaagcc tgttgctagt 660
caagtattga gggtgttggg tgtgtgtgta tatacttaag gctgaggagg tgaaggtgtg 720
aaggaagact cctcaaatgg gaatatattt taattcctgg aacagttttg aactgctgcc 780
ttagtgaaga cttagttatt tgagaaattt aaaattacgg tgctccatgg cttaggctaa 840
ccactctaga gaatgttcca gatttgatat ttgagctttg tgctcttcta cttaagggtg 900
ttaagaaaat agagataaag tgggttgctc aaggtttgtt gcaatgtaaa aaccatggta 960
gggtgtgggc ggcgggacct tggtaagtat tgtgtgatct caggtgagct ttttgacaat 1020
tgaaatttct cagaataatg acaagttttc gtatttgttg agccagggac ggaaaaacaa 1080
ctatagttac taataaggac tgtgcaagga gtttggacac cagggaagta acacttttgc 1140
cacaaatttt tttcctagca tatcccagag aactcatttg ccagagctct tgaaaatgag 1200
tcttgctgat tgtttttgctt tattttaatt taatgctaca tattaagtta cggacttgta 1260
tattccaggg atctggatct gaagaagcca atttatcaga ggactgcagc ctatggccac 1320
tttggtaggg acagcttccc atgggaagtg cccaaaaagc ttaaatattg aaagtgttag 1380
ccttttttcc ccagacttgt tggcgtaggc tacagagaag ccttcaagct ctgagggaaa 1440
gggccctcct tcctaaattt tcctgtcctc tttcagctcc tgaccagttg cagtcactct 1500
agtcaatgac atgaatttta gcttttgtgg gggactgtaa gttgggcttg ctattctgtc 1560
cctaggtgtt ttgttcacca ttataatgaa tttagtgagc ataggtgatc catgtaactg 1620
cctagaaaca acactgtagt aaataatgct ttgaaattga acctttgtgc cctatcaccc 1680
aacgctccaa agtcataatt gcattgactt tccccaccag atgctgaaaa tgtccttgtg 1740
atgtgcacgt aaagtacttg tagttccact tatagcctct gtctggcaat gccacagccc 1800
tgtcagcatg aatttgtaat gtcttgagct ctattatgaa tgtgaagcct gttgctagtc 1860
aagtattgag ggtgttgggt gtgtgtgtat atacttaagg ctgaggaggt gaaggtgtga 1920
aggaagactc ctcaaatggg aatatatttt aattcctgga acagttttga actgctgcct 1980
tagtgaagac ttagttattt gagaaattta aaattacggt gctccatggc ttaggctaac 2040
cactctagag aatgttccag atttgatatt tgagctttgt gctcttctac ttaagggtgg 2100
```

<210> 140
<211> 2115
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 809809CB1

<400> 140
```
gaccgtggga ggttgttgtg gctccgaggg ctgttcgagg agctgctgct gctgaggcgg 60
cggcaactgc attgaggtgg tggcggcgct gccggccccg ggccgctcgg cctctcggct 120
cgccttccag cctcgcctga gcccgccggg gcccgcgccg gccagcgcct gccctatgag 180
tgtgtcactg gttgttatcc gattggagct cgcggaacac tcgcctgtcc ccgccggctt 240
cggcttcagc gccgcggccg gggaaatgtc tgatgaggag ataaaaaaga cgacactagc 300
ctcagctgta gcctgtttag aaggcaagtc accaggagag aaagtagcga ttatccatca 360
gcatctcggc cgtcgagaaa tgacagatgt gatcattgag accatgaagt ccaacccaga 420
tgaactaaaa actacagtgg aagaaaggaa gtcttcagaa gcctccccca ctgcgcaaag 480
aagtaaagat cacagtaagg aatgcataaa cgctgcccca gattctccgt ccaaacagct 540
tccagaccag atttcattct tcagtggaaa tccatcagtt gaaatagttc atggtattat 600
gcacctatat aagacaaata agatgacctc cttaaaagaa gatgtgcggc gcagtgccat 660
gctgtgtatt ctcacagtcc ctgctgcaat gaccagtcat gaccttatga gtttgttgc 720
cccatttaac gaagtaattg aacaaatgaa aattatcaga gactctactc ccaaccaata 780
tatggtgctg ataaagtttc gtgcacaggc tgatgcggat agttttttata tgacatgcaa 840
```

141

```
tggccgccag ttcaactcaa tagaagatga cgtttgccag ctagtgtatg tggaaagagc 900
tgaagtgctc aaatctgaag atggcgccag cctcccagtg atggacctga ctgaactccc 960
caagtgcacg gtgtgtctgg agcgcatgga cgagtctgtg aatggcatcc tcacaacgtt 1020
atgtaaccac agcttccaca gccagtgtct acagcgctgg gacgatacca cgtgtcctgt 1080
ttgccggtac tgtcaaacgc ccgagccagt agaagaaaat aagtgttttg agtgtggtgt 1140
tcaggaaaat ctttggattt gtttaatatg cggccacata ggatgtggac ggtatgtcag 1200
tcgacatgct tataagcact ttgaggaaac gcagcacacg tatgccatgc agcttaccaa 1260
ccatcgagtc tgggactatg ctggagataa ctatgttcat cgactggttg caagtaaaac 1320
agatggaaaa atagtacagt atgaatgtga ggggggatact tgccaggaag agaaaataga 1380
tgccttacag ttagagtatt catatttact aacaagccag ctggaatctc agcgaatcta 1440
ctgggaaaac aagatagttc ggatagagaa ggacacagca gaggaaatta acaacatgaa 1500
gaccaagttt aaagaaacaa ttgagaagtg tgataatcta gagcacaaac taaatgatct 1560
cctaaaagaa aagcagtctg tggaaagaaa gtgcactcag ctaaacacaa aagtggccaa 1620
actcaccaac gagctcaaag aggagcagga aatgaacaag tgtttgcgag ccaaccaagt 1680
cctcctgcag aacaagctaa aagaggagga gagggtgctg aaggagacct gtgaccaaaa 1740
agatctgcag atcaccgaga tccaggagca gctgcgtgac gtcatgttct acctggagac 1800
acagcagaag atcaaccatc tgcctgccga gacccggcag gaaatccagg agggacagat 1860
caacatcgcc atggcctcgg cctcgagccc tgcctcttcg gggggcagtg ggaagttgcc 1920
ctccaggaag ggccgcagca agaggggcaa gtgaccttca gagcaacaga catccctgag 1980
actgttctcc ctgacactgt gagagtgtgc tgggaccttc agctaaatgt gagggtgggc 2040
cctaataagt acaagtgagg atcaagccac agttgtttgg ctctttcatt tgctagtgtg 2100
tgatgtagtg aatgt                                                   2115
```

```
<210> 141
<211> 592
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 809809CD1

<400> 141
Met Ser Val Ser Leu Val Val Ile Arg Leu Glu Leu Ala Glu His
1               5                  10                  15
Ser Pro Val Pro Ala Gly Phe Gly Phe Ser Ala Ala Ala Gly Glu
                20                  25                  30
Met Ser Asp Glu Glu Ile Lys Lys Thr Thr Leu Ala Ser Ala Val
                35                  40                  45
Ala Cys Leu Glu Gly Lys Ser Pro Gly Glu Lys Val Ala Ile Ile
                50                  55                  60
His Gln His Leu Gly Arg Arg Glu Met Thr Asp Val Ile Ile Glu
            65                  70                  75
Thr Met Lys Ser Asn Pro Asp Glu Leu Lys Thr Thr Val Glu Glu
            80                  85                  90
Arg Lys Ser Ser Glu Ala Ser Pro Thr Ala Gln Arg Ser Lys Asp
                95                  100                 105
His Ser Lys Glu Cys Ile Asn Ala Ala Pro Asp Ser Pro Ser Lys
                110                 115                 120
Gln Leu Pro Asp Gln Ile Ser Phe Phe Ser Gly Asn Pro Ser Val
                125                 130                 135
Glu Ile Val His Gly Ile Met His Leu Tyr Lys Thr Asn Lys Met
                140                 145                 150
Thr Ser Leu Lys Glu Asp Val Arg Arg Ser Ala Met Leu Cys Ile
                155                 160                 165
Leu Thr Val Pro Ala Ala Met Thr Ser His Asp Leu Met Lys Phe
```

142

```
                     170                      175                      180
Val Ala Pro Phe Asn Glu Val Ile Glu Gln Met Lys Ile Ile Arg
                     185                      190                      195
Asp Ser Thr Pro Asn Gln Tyr Met Val Leu Ile Lys Phe Arg Ala
                     200                      205                      210
Gln Ala Asp Ala Asp Ser Phe Tyr Met Thr Cys Asn Gly Arg Gln
                     215                      220                      225
Phe Asn Ser Ile Glu Asp Asp Val Cys Gln Leu Val Tyr Val Glu
                     230                      235                      240
Arg Ala Glu Val Leu Lys Ser Glu Asp Gly Ala Ser Leu Pro Val
                     245                      250                      255
Met Asp Leu Thr Glu Leu Pro Lys Cys Thr Val Cys Leu Glu Arg
                     260                      265                      270
Met Asp Glu Ser Val Asn Gly Ile Leu Thr Thr Leu Cys Asn His
                     275                      280                      285
Ser Phe His Ser Gln Cys Leu Gln Arg Trp Asp Asp Thr Thr Cys
                     290                      295                      300
Pro Val Cys Arg Tyr Cys Gln Thr Pro Glu Pro Val Glu Glu Asn
                     305                      310                      315
Lys Cys Phe Glu Cys Gly Val Gln Glu Asn Leu Trp Ile Cys Leu
                     320                      325                      330
Ile Cys Gly His Ile Gly Cys Gly Arg Tyr Val Ser Arg His Ala
                     335                      340                      345
Tyr Lys His Phe Glu Glu Thr Gln His Thr Tyr Ala Met Gln Leu
                     350                      355                      360
Thr Asn His Arg Val Trp Asp Tyr Ala Gly Asp Asn Tyr Val His
                     365                      370                      375
Arg Leu Val Ala Ser Lys Thr Asp Gly Lys Ile Val Gln Tyr Glu
                     380                      385                      390
Cys Glu Gly Asp Thr Cys Gln Glu Glu Lys Ile Asp Ala Leu Gln
                     395                      400                      405
Leu Glu Tyr Ser Tyr Leu Leu Thr Ser Gln Leu Glu Ser Gln Arg
                     410                      415                      420
Ile Tyr Trp Glu Asn Lys Ile Val Arg Ile Glu Lys Asp Thr Ala
                     425                      430                      435
Glu Glu Ile Asn Asn Met Lys Thr Lys Phe Lys Glu Thr Ile Glu
                     440                      445                      450
Lys Cys Asp Asn Leu Glu His Lys Leu Asn Asp Leu Leu Lys Glu
                     455                      460                      465
Lys Gln Ser Val Glu Arg Lys Cys Thr Gln Leu Asn Thr Lys Val
                     470                      475                      480
Ala Lys Leu Thr Asn Glu Leu Lys Glu Glu Gln Glu Met Asn Lys
                     485                      490                      495
Cys Leu Arg Ala Asn Gln Val Leu Leu Gln Asn Lys Leu Lys Glu
                     500                      505                      510
Glu Glu Arg Val Leu Lys Glu Thr Cys Asp Gln Lys Asp Leu Gln
                     515                      520                      525
Ile Thr Glu Ile Gln Glu Gln Leu Arg Asp Val Met Phe Tyr Leu
                     530                      535                      540
Glu Thr Gln Gln Lys Ile Asn His Leu Pro Ala Glu Thr Arg Gln
                     545                      550                      555
Glu Ile Gln Glu Gly Gln Ile Asn Ile Ala Met Ala Ser Ala Ser
                     560                      565                      570
Ser Pro Ala Ser Ser Gly Gly Ser Gly Lys Leu Pro Ser Arg Lys
                     575                      580                      585
Gly Arg Ser Lys Arg Gly Lys
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590

<210> 142
<211> 2435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2558815CB1

<400> 142
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gctctccccg cttcttcgca gtcttcggcc ctctcctgtc gccgccatga gcactggcac 120
cttcgtcgtg tcgcagccgc tcaattaccg cggcggggcc cgcgtggagc cggcggacgc 180
ctccggtacc gagaaagctt tcgagccagc aaccggccga gtgatagcta ctttcacatg 240
ttcaggagaa aaggaagtaa atttggctgt tcaaaatgca aaggctgctt ttaaaatatg 300
gagtcaaaaa tctggcatgg agcgttgccg aatccttttg gaggctgcca ggataataag 360
ggaacgggag gatgaaattg ctactatgga gtgcatcaac aatggcaagt ccatctttga 420
ggcccgcttg gacatcgaca tttcctggca gtgcctggag tattatgcgg gcttggctgc 480
atccatggct ggtgaacaca tccagctccc aggtggatcg tttggttata ccagaagaga 540
accacttggg gtatgtgtgg gaataggagc atggaactac ccctttcaga ttgcctcttg 600
gaagtcggct ccagcattag cctgtggtaa tgccatggtc tttaaacctt ctccctttac 660
acctgtttct gcattgctac tggctgaaat ctacagtgag gctggtgtac ctcctgggct 720
cttcaatgtg gtgcagggag gggctgccac aggccagttt ctgtgtcagc atcccgatgt 780
ggccaaagtc tccttcactg gaagtgtgcc cactggcatg aagatcatgg agatgtcagc 840
taaaggaatc aaacctgtta ccttggaact tggaggcaaa tctccactca tcatcttctc 900
agactgtgat atgaacaatg ctgtaaaggg ggcgctgatg gccaacttcc tcacacaagg 960
ccaggtttgc tgtaatggca caagagtatt tgtgcagaaa gaaattcttg ataaatttac 1020
agaggaagtg gtgaaacaga cccaaaggat taaaattgga gatccccttc tggaagatac 1080
aaggatgggt ccactcatca accgaccaca cctggagcga gtccttgggt ttgtcaaagt 1140
ggcaaaggag cagggtgcta aagtgttatg tggtggagat atatatgtac ctgaagatcc 1200
caaattaaag gatggatatt acatgagacc ttgtgtatta actaattgca gagacgacat 1260
gacctgtgtg aaggaagaga tctttgggcc tgttatgtcc attttatcat ttgacactga 1320
agctgaggtt ctagaaagag ccaatgatac cacttttgga ctagcagctg gcgtctttac 1380
cagggacatc caacgggctc atagagtggt agctgagctt caggctggga cgtgcttcat 1440
taacaactat aacgtcagcc cagtggagtt gccctttggt ggatataaga agtcaggatt 1500
tggcagagag aacggccgtg tgacaatcga atattattca cagctgaaga ctgtgtgtgt 1560
ggagatgggt gatgtggaat ctgcttttg aaaacctgca gtgaaccta ttgacatggc 1620
cacgctgtgg aatgatgtga attggcccctg tttacagagg cagtacaact gaatgttatt 1680
ttacatccag aattttggcg ttcagtataa gagaatggtt catgttactc tttctctctc 1740
catcagcttc ctcactgaaa atgtgcatta agtgccttgt agatactaat caagaaagct 1800
gtgattctcc tcaaagcgta tttttgtgaa atctttaag agccagtaac atacttctag 1860
agaacaggaa aagagactag gataatacat cttccacaca tttggcccac tgataatgtt 1920
aattctctgg cgtatttcaa agaacttgtt cctggctgat ccaagtgcag tggtatttac 1980
aactaattga tcacaaccag tttgtagatt tctttgttcc ttctccattc ccactgcttc 2040
acttgcctag tcttgaagaa aaaaacaaa aaacaaaaaa aaaccttgtt cctttatagg 2100
ttcctggtag aatcagtaga gatgatttca gctcattgac attttttaa gctatatccc 2160
cttgtcattc cattgagaaa gctgacaact gggataggga ggggattcga taatagatgg 2220
ggtcaaattc tgtgtgaatg tgaacttgcc tagtaagcac tttgtctctg ttcactactg 2280
cgatagagga aatctatctc cctatcttgg gtccttgaac tacagcctgc tgtcttacac 2340
cagtggagct acccttaaa tgtacaaatt atttgtatgc taatgtaata tggtgaaatt 2400
aaaataaatc acactgttaa ttgttaaaaa aaaaa 2435

<210> 143
<211> 518
<212> PRT

PA-0035 US

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2558815CD1

<400> 143
Met Phe Leu Arg Ala Gly Leu Ala Ala Leu Ser Pro Leu Leu Arg
 1   5   10   15
Ser Leu Arg Pro Ser Pro Val Ala Ala Met Ser Thr Gly Thr Phe
                20   25   30
Val Val Ser Gln Pro Leu Asn Tyr Arg Gly Gly Ala Arg Val Glu
                35   40   45
Pro Ala Asp Ala Ser Gly Thr Glu Lys Ala Phe Glu Pro Ala Thr
                50   55   60
Gly Arg Val Ile Ala Thr Phe Thr Cys Ser Gly Glu Lys Glu Val
                65   70   75
Asn Leu Ala Val Gln Asn Ala Lys Ala Ala Phe Lys Ile Trp Ser
                80   85   90
Gln Lys Ser Gly Met Glu Arg Cys Arg Ile Leu Leu Glu Ala Ala
                95   100   105
Arg Ile Ile Arg Glu Arg Glu Asp Glu Ile Ala Thr Met Glu Cys
                110   115   120
Ile Asn Asn Gly Lys Ser Ile Phe Glu Ala Arg Leu Asp Ile Asp
                125   130   135
Ile Ser Trp Gln Cys Leu Glu Tyr Tyr Ala Gly Leu Ala Ala Ser
                140   145   150
Met Ala Gly Glu His Ile Gln Leu Pro Gly Gly Ser Phe Gly Tyr
                155   160   165
Thr Arg Arg Glu Pro Leu Gly Val Cys Val Gly Ile Gly Ala Trp
                170   175   180
Asn Tyr Pro Phe Gln Ile Ala Ser Trp Lys Ser Ala Pro Ala Leu
                185   190   195
Ala Cys Gly Asn Ala Met Val Phe Lys Pro Ser Pro Phe Thr Pro
                200   205   210
Val Ser Ala Leu Leu Leu Ala Glu Ile Tyr Ser Glu Ala Gly Val
                215   220   225
Pro Pro Gly Leu Phe Asn Val Val Gln Gly Gly Ala Ala Thr Gly
                230   235   240
Gln Phe Leu Cys Gln His Pro Asp Val Ala Lys Val Ser Phe Thr
                245   250   255
Gly Ser Val Pro Thr Gly Met Lys Ile Met Glu Met Ser Ala Lys
                260   265   270
Gly Ile Lys Pro Val Thr Leu Glu Leu Gly Gly Lys Ser Pro Leu
                275   280   285
Ile Ile Phe Ser Asp Cys Asp Met Asn Asn Ala Val Lys Gly Ala
                290   295   300
Leu Met Ala Asn Phe Leu Thr Gln Gly Gln Val Cys Cys Asn Gly
                305   310   315
Thr Arg Val Phe Val Gln Lys Glu Ile Leu Asp Lys Phe Thr Glu
                320   325   330
Glu Val Val Lys Gln Thr Gln Arg Ile Lys Ile Gly Asp Pro Leu
                335   340   345
Leu Glu Asp Thr Arg Met Gly Pro Leu Ile Asn Arg Pro His Leu
                350   355   360
Glu Arg Val Leu Gly Phe Val Lys Val Ala Lys Glu Gln Gly Ala

145

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                 365                      370                      375
Lys Val Leu Cys Gly Gly Asp Ile Tyr Val Pro Glu Asp Pro Lys
                 380                      385                      390
Leu Lys Asp Gly Tyr Tyr Met Arg Pro Cys Val Leu Thr Asn Cys
                 395                      400                      405
Arg Asp Asp Met Thr Cys Val Lys Glu Glu Ile Phe Gly Pro Val
                 410                      415                      420
Met Ser Ile Leu Ser Phe Asp Thr Glu Ala Glu Val Leu Glu Arg
                 425                      430                      435
Ala Asn Asp Thr Thr Phe Gly Leu Ala Ala Gly Val Phe Thr Arg
                 440                      445                      450
Asp Ile Gln Arg Ala His Arg Val Val Ala Glu Leu Gln Ala Gly
                 455                      460                      465
Thr Cys Phe Ile Asn Asn Tyr Asn Val Ser Pro Val Glu Leu Pro
                 470                      475                      480
Phe Gly Gly Tyr Lys Lys Ser Gly Phe Gly Arg Glu Asn Gly Arg
                 485                      490                      495
Val Thr Ile Glu Tyr Tyr Ser Gln Leu Lys Thr Val Cys Val Glu
                 500                      505                      510
Met Gly Asp Val Glu Ser Ala Phe
                 515
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<210> 144
<211> 2412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 242010.16

<400> 144

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ggaaggaccg agctcttctc gcggatccag tgttccgttt ccagcccca atctcagagc 180
ggagccgaca gagagcaggg aaccggcatg gccaaagccg cggcgatcgg catcgacctg 240
ggcaccacct actcctgcgt ggggggtgttc caacacggca aggtggagat catcgccaac 300
gaccagggca accgcaccac ccccagctac gtggccttca cggacaccga gcggctcatc 360
ggggatgcgg ccaagaacca ggtggcgctg aacccgcaga acaccgtgtt tgacgcgaag 420
cggctgatcg gccgcaagtt cggcgacccg gtggtgcagt cggacatgaa gcactggcct 480
ttccaggtga tcaacgacgg agacaagccc aaggtgcagg tgagctacaa gggggagacc 540
aaggcattct accccgagga gatctcgtcc atggtgctga ccaagatgaa ggagatcgcc 600
gaggcgtacc tgggctaccc ggtgaccaac gcggtgatca ccgtgccggc ctacttcaac 660
gactcgcagc gccaggccac caaggatgcg ggtgtgatcg cggggctcaa cgtgctgcgg 720
atcatcaacg agcccacggc cgccgccatc gcctacggcc tggacagaac gggcaagggg 780
gagcgcaacg tgctcatctt tgacctgggc gggggcacct cgacgtgtc catcctgacg 840
atcgacgacg gcatcttcga ggtgaaggcc acggccgggg acacccacct gggtggggag 900
gactttgaca acaggctggt gaaccacttc gtggaggagt tcaagagaaa acacaagaag 960
gacatcagcc agaacaagcg agccgtgagg cggctgcgca ccgcctgcga gaggccaag 1020
aggaccctgt cgtccagcac ccaggccagc ctggagatcg actccctgtt tgagggcatc 1080
gacttctaca cgtccatcac cagggcgagg ttcgaggagc tgtgctccga cctgttccga 1140
agcaccctgg agcccgtgga gaaggctctg cgcgacgcca agctggacaa ggcccagatt 1200
cacgacctgg tcctggtcgg gggctccacc cgcatcccca aggtgcagaa gctgctgcaa 1260
gacttcttca cgggcgcga cctgaacaag agcatcaacc ccgacgaggc tgtggcctac 1320
ggggcggcgg tgcaggcggc catcctgatg ggggacaagt ccgagaacgt gcaggacctg 1380
ctgctgctgg acgtggctcc cctgtcgctg gggctggaga cggccggagg cgtgatgact 1440
gccctgatca agcgcaactc caccatcccc accaagcaga cgcagatctt caccacctac 1500
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tccgacaacc aacccggggt gctgatccag gtgtacgagg gcgagagggc catgacgaaa 1560
gacaacaatc tgttggggcg cttcgagctg agcggcatcc ctccggcccc caggggcgtg 1620
ccccagatcg aggtgacctt cgacatcgat gccaacggca tcctgaacgt cacggccacg 1680
gacaagagca ccggcaaggc caacaagatc accatcacca acgacaaggg ccgcctgagc 1740
aaggaggaga tcgagcgcat ggtgcaggag gcggagaagt acaaagcgga ggacgaggtg 1800
cagcgcgaga gggtgtcagc caagaacgcc ctggagtcct acgccttcaa catgaagagc 1860
gccgtggagg atgagggggct caagggcaag atcagcgagg cggacaagaa gaaggtgctg 1920
gacaagtgtc aagaggtcat ctcgtggctg gacgccaaca ccttggccga gaaggacgag 1980
tttgagcaca agaggaagga gctggagcag gtgtgtaacc ccatcatcag cggactgtac 2040
cagggtgccg gtggtcccgg gcctgggggc ttcggggctc agggtcccaa gggagggtct 2100
gggtcaggcc ccaccattga ggaggtagat taggggcctt ccaagattg ctgtttttgt 2160
tttggagctt caagactttg catttcctag tatttctgtt tgtcagttct caatttcctg 2220
tgtttgcaat gttgaaattt tttggtgaag tactgaactt gctttttttc cggtttctac 2280
atgcagagat gaatttatac tgccatctta cgactatttc ttcttttttaa tacacttaac 2340
tcaggccatt ttttaagttg gttacttcaa agtaaataaa ctttaaaatt caagtgaaaa 2400
acaaaaaaaa gg                                                     2412
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<210> 145
<211> 2458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1678695CB1

<400> 145
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gcctgaggag ctgctgcgag ggtccgcttc gtctttcgag agtgactccc gcggtcccaa 60
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gaaggactga gctcttgtcg cggatcccgt ccgccgtttc cagcccccag tctcagagcg 180
gagcccacag agcagggcac cggcatggcc aaagccgcgg cgatcggcat cgacctgggc 240
accacctact cctgcgtggg ggtgttccaa cacggcaagg tggagatcat cgccaacgac 300
cagggcaacc gcaccacccc cagctacgtg gccttcacgg acaccgagcg gctcatcggg 360
gatgcggcca agaaccaggt ggcgctgaac ccgcagaaca ccgtgtttga cgcgaagcgc 420
ctgatcggcc gcaagttcgg cgacccggtg gtgcagtcgg acatgaagca ctggcctttc 480
caggtgatca acgacggaga caagcccaag gtgcaggtga gctacaaggg ggagaccaag 540
gcattctacc ccgaggagat ctcgtccatg gtgctgacca agatgaagga gatcgccgag 600
gcgtacctgg gctacccggt gaccaacgcg gtgatcaccg tgccggccta cttcaacgac 660
tcgcagcgcc aggccaccaa ggatgcgggt gtgatcgcgg ggctcaacgt gctgcggatc 720
atcaacgagc ccacggccgc cgccatcgcc tacggcctgg acagaacggg caaggggggag 780
cgcaacgtgc tcatctttga cctgggcggg ggcaccttcg acgtgtccat cctgacgatc 840
gacgacggca tcttcgaggt gaaggccacg gccggggaca cccacctggg tggggaggac 900
tttgacaaca ggctggtgaa ccacttcgtg gaggagttca gagaaaaca caagaaggac 960
atcagccaga caagcgagc cgtgaggcga ctgcgcaccg cctgcgagag ggccaagagg 1020
accctgtcgt ccagcacccca ggccagcctg gagatcgact ccctgtttga gggcatcgac 1080
ttctacacgt ccatcaccag ggcgaggttc gaggagctgt gctccgacct gttccgaagc 1140
accctggagc ccgtggagaa ggctctgcgc gacgccaagc tggacaaggc ccagattcac 1200
gacctggtcc tggtcggggg gctccacccgc atccccaagg tgcagaagct gctgcaggac 1260
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gcggcggtgc aggcggccat cctgatgggg gacaagtccg agaacgtgca ggacctgctg 1380
ctgctggacg tggctccccct gtcgctgggg ctggagacgg ccggaggcgt gatgactgcc 1440
ctgatcaagc gcaactccac catccccacc aagcagacgc agatcttcac cacctactcc 1500
gacaaccaac ccggggtgct gatccaggtg tacgagggcg agagggccat gacgaaagac 1560
aacaatctgt ggggcgcttt cgagctgagc ggcatccctc ggcccccag gggcgtgccc 1620
cagatcgagg tgaccttcga catcgatgcc aacggcatcc tgaacgtcac ggccacggac 1680
aagagcaccg gcaaggccaa caagatcacc atcaccaacg acaagggccg cctgagcaag 1740
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gaggagatcg agcgcatggt gcaggaggcg gagaagtaca aagcggagga cgaggtgcag 1800
cgcgagaggg tgtcagccaa gaacgccctg gagtcctacg ccttcaacat gaagagcgcc 1860
gtggaggatg aggggctcaa gggcaagatc agcgaggccg acaagaagaa ggtgctggac 1920
aagtgtcaag aggtcatctc gtggctggac gccaacacct ggccgagaa ggacgagttt 1980
gagcacaaga ggaaggagct ggagcaggtg tgtaacccca tcatcagcgg actgtaccag 2040
ggtgccggtg gtcccgggcc tggggcttc ggggctcagg gtcccaaggg agggtctggg 2100
tcaggcccca ccattgagga ggtagattag gggcctttgt ccttaagaag ttgcccttaa 2160
attgaacttt tgggactcaa ggactttgct gctgttttcc tatgtcattt ctgcttcagc 2220
tctttgctgc ttcacttctt tgtaaagtta agttgtaacc tgatggtaat tagctggctt 2280
cattatttt gtagtacaac cgatatgttc attagaattc tttgcattta atgttgatac 2340
tgtaagggtg tttcgttccc tttaaatgaa tcaacactgc caccttctgt acgagtttgt 2400
ttgtttttt tttttttttt ttttttttg cttggcgaaa acactacaaa ggctggga    2458
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<210> 146
<211> 641
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1678695CD1

<400> 146
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Met Ala Lys Ala Ala Ala Ile Gly Ile Asp Leu Gly Thr Thr Tyr
1               5                   10                  15
Ser Cys Val Gly Val Phe Gln His Gly Lys Val Glu Ile Ile Ala
                20                  25                  30
Asn Asp Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr
                35                  40                  45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
                50                  55                  60
Leu Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
                65                  70                  75
Arg Lys Phe Gly Asp Pro Val Val Gln Ser Asp Met Lys His Trp
                80                  85                  90
Pro Phe Gln Val Ile Asn Asp Gly Asp Lys Pro Lys Val Gln Val
                95                  100                 105
Ser Tyr Lys Gly Glu Thr Lys Ala Phe Tyr Pro Glu Glu Ile Ser
                110                 115                 120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
                125                 130                 135
Gly Tyr Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala Tyr Phe
                140                 145                 150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val Ile Ala
                155                 160                 165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
                170                 175                 180
Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu Arg Asn Val
                185                 190                 195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
                200                 205                 210
Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly Asp
                215                 220                 225
Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His
                230                 235                 240
Phe Val Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Gln
```

148

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                    245                      250                      255
Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg Ala
                    260                      265                      270
Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Leu Glu Ile Asp
                    275                      280                      285
Ser Leu Phe Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala
                    290                      295                      300
Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser Thr Leu Glu
                    305                      310                      315
Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Ala Gln
                    320                      325                      330
Ile His Asp Leu Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys
                    335                      340                      345
Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Arg Asp Leu Asn
                    350                      355                      360
Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val
                    365                      370                      375
Gln Ala Ala Ile Leu Met Gly Asp Lys Ser Glu Asn Val Gln Asp
                    380                      385                      390
Leu Leu Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu Glu Thr
                    395                      400                      405
Ala Gly Gly Val Met Thr Ala Leu Ile Lys Arg Asn Ser Thr Ile
                    410                      415                      420
Pro Thr Lys Gln Thr Gln Ile Phe Thr Thr Tyr Ser Asp Asn Gln
                    425                      430                      435
Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala Met Thr
                    440                      445                      450
Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly Ile Pro
                    455                      460                      465
Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile
                    470                      475                      480
Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Thr Asp Lys Ser Thr
                    485                      490                      495
Gly Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu
                    500                      505                      510
Ser Lys Glu Glu Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr
                    515                      520                      525
Lys Ala Glu Asp Glu Val Gln Arg Glu Arg Val Ser Ala Lys Asn
                    530                      535                      540
Ala Leu Glu Ser Tyr Ala Phe Asn Met Lys Ser Ala Val Glu Asp
                    545                      550                      555
Glu Gly Leu Lys Gly Lys Ile Ser Glu Ala Asp Lys Lys Lys Val
                    560                      565                      570
Leu Asp Lys Cys Gln Glu Val Ile Ser Trp Leu Asp Ala Asn Thr
                    575                      580                      585
Leu Ala Glu Lys Asp Glu Phe Glu His Lys Arg Lys Glu Leu Glu
                    590                      595                      600
Gln Val Cys Asn Pro Ile Ile Ser Gly Leu Tyr Gln Gly Ala Gly
                    605                      610                      615
Gly Pro Gly Pro Gly Gly Phe Gly Ala Gln Gly Pro Lys Gly Gly
                    620                      625                      630
Ser Gly Ser Gly Pro Thr Ile Glu Glu Val Asp
                    635                      640
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<210> 147
<211> 4035
<212> DNA

PA-0035 US

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 988653.1

<220>
<221> unsure
<222> 2626, 3304-3502
<223> a, t, c, g, or other

<400> 147
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tcctgccgcc gcaggaccgg cccctgcccc agcctccgca gccgcggcgc gtccacgccc 120
gcccgcgccc agggcgagtc ggggtcgccg cctgcacgct tctcagtgtt ccccgcgccc 180
cgcatgtaac ccggccaggc ccccgcaact gtgtcccctg cagctccagc cccgggctgc 240
accccccgc cccgacacca gctctccagc ctgctcgtcc aggatggccg cggccaaggc 300
cgagatgcag ctgatgtccc cgctgcagat ctctgacccg ttcggatcct ttcctcactc 360
gcccaccatg gacaactacc ctaagctgga ggagatgatg ctgctgagca acggggctcc 420
ccagttcctc ggcgccgccg gggcccaga gggcagcggc agcaacagca gcagcagcag 480
cagcgggggc ggtggaggcg gcgggggcgg cagcaacagc agcagcagca gcagcacctt 540
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150

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<213> Homo sapiens

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<223> Incyte ID No: 1250434CB1

<400> 148
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aatggccttg tgaaaaaggg taaagaacaa aacacacagc gaagcttttt tctcagaatg 780
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<211> 827
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1250434CD1

<400> 149

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                35                  40                  45
Pro Leu Pro His Asn Val Ser Ser His Leu Asp Lys Ala Ser Val
                50                  55                  60
Met Arg Leu Thr Ile Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp
                65                  70                  75
Ala Gly Asp Leu Asp Ile Glu Asp Asp Met Lys Ala Gln Met Asn
                80                  85                  90
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152

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Cys Phe Tyr Leu Lys Ala Leu Asp Gly Phe Val Met Val Leu Thr
             95                  100                 105
Asp Asp Gly Asp Met Ile Tyr Ile Ser Asp Asn Val Asn Lys Tyr
             110                 115                 120
Met Gly Leu Thr Gln Phe Glu Leu Thr Gly His Ser Val Phe Asp
             125                 130                 135
Phe Thr His Pro Cys Asp His Glu Glu Met Arg Glu Met Leu Thr
             140                 145                 150
His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu Gln Asn Thr Gln
             155                 160                 165
Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr Ser Arg Gly
             170                 175                 180
Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu His Cys
             185                 190                 195
Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro Gln
             200                 205                 210
Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Val Leu Ile Cys
             215                 220                 225
Glu Pro Ile Pro His Pro Ser Asn Ile Glu Ile Pro Leu Asp Ser
             230                 235                 240
Lys Thr Phe Leu Ser Arg His Ser Leu Asp Met Lys Phe Ser Tyr
             245                 250                 255
Cys Asp Glu Arg Ile Thr Glu Leu Met Gly Tyr Glu Pro Glu Glu
             260                 265                 270
Leu Leu Gly Arg Ser Ile Tyr Glu Tyr Tyr His Ala Leu Asp Ser
             275                 280                 285
Asp His Leu Thr Lys Thr His His Asp Met Phe Thr Lys Gly Gln
             290                 295                 300
Val Thr Thr Gly Gln Tyr Arg Met Leu Ala Lys Arg Gly Gly Tyr
             305                 310                 315
Val Trp Val Glu Thr Gln Ala Thr Val Ile Tyr Asn Thr Lys Asn
             320                 325                 330
Ser Gln Pro Gln Cys Ile Val Cys Val Asn Tyr Val Val Ser Gly
             335                 340                 345
Ile Ile Gln His Asp Leu Ile Phe Ser Leu Gln Gln Thr Glu Cys
             350                 355                 360
Val Leu Lys Pro Val Glu Ser Ser Asp Met Lys Met Thr Gln Leu
             365                 370                 375
Phe Thr Lys Val Glu Ser Glu Asp Thr Ser Ser Leu Phe Asp Lys
             380                 385                 390
Leu Lys Lys Glu Pro Asp Ala Leu Thr Leu Leu Ala Pro Ala Ala
             395                 400                 405
Gly Asp Thr Ile Ile Ser Leu Asp Phe Gly Ser Asn Asp Thr Glu
             410                 415                 420
Thr Asp Asp Gln Gln Leu Glu Glu Val Pro Leu Tyr Asn Asp Val
             425                 430                 435
Met Leu Pro Ser Pro Asn Glu Lys Leu Gln Asn Ile Asn Leu Ala
             440                 445                 450
Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser
             455                 460                 465
Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu
             470                 475                 480
Pro Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile
             485                 490                 495
Gln Asp Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser
             500                 505                 510
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153

Ser Pro Glu Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp
                515   520   525
Ser Asp Met Val Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu
                530   535   540
Phe Ala Glu Asp Thr Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp
                545   550   555
Thr Asp Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Pro Met Asp
                560   565   570
Asp Asp Phe Gln Leu Arg Ser Phe Asp Gln Leu Ser Pro Leu Glu
                575   580   585
Ser Ser Ser Ala Ser Pro Glu Ser Ala Ser Pro Gln Ser Thr Val
                590   595   600
Thr Val Phe Gln Gln Thr Gln Ile Gln Glu Pro Thr Ala Asn Ala
                605   610   615
Thr Thr Thr Thr Ala Thr Thr Asp Glu Leu Lys Thr Val Thr Lys
                620   625   630
Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala Ser Pro Ser Pro
                635   640   645
Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser Ser Pro Tyr
                650   655   660
Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala Gly Lys
                665   670   675
Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro Asn
                680   685   690
Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu
                695   700   705
Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys
                710   715   720
Arg Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile
                725   730   735
Gly Thr Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser
                740   745   750
Leu Ser Trp Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn
                755   760   765
Gly Met Glu Gln Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala
                770   775   780
Cys Arg Leu Leu Gly Gln Ser Met Asp Glu Ser Gly Leu Pro Gln
                785   790   795
Leu Thr Ser Tyr Asp Cys Glu Val Asn Ala Pro Ile Gln Gly Ser
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Val Asn

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<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 159-272

154

<223> a, t, c, g, or other

<400> 150

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gaacatcaca ccttggcgtg atgaaatcat gccaagattc tgactctccc tttccggtga 480
tactgctcat gatttctcct aatacgcttc aagcaactgt taccacaaaa aatacagttt 540
ccgcagggct ttaaaggatt gagtttagca tgtatatcat gcgttattaa agttcacgtg 600
attcatgtga aattaactgt ccttttgct agtgccaaaa cagtgccttc tctgcacact 660
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<210> 151
<211> 584
<212> DNA
<213> Homo sapiens

<220>
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<400> 151

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ggcgagtgct tttctccaag gcgcagacct acgagctgga gcggcgcttt cggcagcagc 360
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aggtcaagat ctggttccag aaccaccgct acaagatgaa gcgcgcccgg gccgagaaag 480
gtatggaggt gacgcccctg ccctcgccgc gccgggtggc cgtgcccgtc ttggtcaggg 540
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<210> 152
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<211> 597
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 060957.1

<220>
<221> unsure
<222> 77, 97, 371
<223> a, t, c, g, or other

<400> 152
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gccggcgcgc gcccctcctc tgccctcccc ccgggccgaa tagattacag ctctgtattc 480
agaaacaccg ccgcgcgcat tcctcctcgc gaacccaaca gaagaccagg cgcttgtggc 540
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<210> 153
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<212> DNA
<213> Homo sapiens

<220>
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<400> 153
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gttgggccgg aactgggctt gtttcaccgg aaagaaggtg ggaactgcct ctgagaatgt 540
gtatgtcaac acagcacacc ttaagaattc tcaggaaaag tattctaata ggctctacaa 600
gtatgatcac aactttgtga aagctatcaa tgccattcag aagtcttgga ctgcaactac 660
atacatggaa tatgagactc ttaccctggg agatatgatt aggagaagtg gtggccacag 720
tcgaaaaatc ccaaggccca aacctgcacc actgactgct gaaatacagc aaaagatttt 780
gcatttgcca acatcttggg actggagaaa tgttcatggt atcaattttg tcagtcctgt 840
tcgaaaccaa gcatcctgtg gcagctgcta ctcatttgct tctatgggta tgctagaagc 900
gagaatccgt atactaacca acaattctca gaccccaatc ctaagccctc aggaggttgt 960
gtcttgtagc cagtatgctc aaggctgtga aggcggcttc ccatacctta ttgcaggaaa 1020
gtacgcccaa gattttgggc tggtggaaga agcttgcttc ccctacacag gcactgattc 1080
tccatgcaaa atgaaggaag actgctttcg ttattactcc tctgagtacc actatgtagg 1140
aggtttctat ggaggctgca atgaagccct gatgaagctt gagttggtcc atcatgggcc 1200
catggcagtt gcttttgaag tatatgatga cttcctccac tacaaaaagg ggatctacca 1260
```

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ccacactggt ctaagagacc ctttcaaccc ctttgagctg actaatcatg ctgttctgct 1320
tgtgggctat ggcactgact cagcctctgg gatggattac tggattgtta aaaacagctg 1380
gggcaccggc tggggtgaga atggctactt ccggatccgc agaggaactg atgagtgtgc 1440
aattgagagc atagcagtgg cagccacacc aattcctaaa ttgtagggta tgccttccag 1500
tatttcataa tgatctgcat cagttgtaaa ggggaattgg tatattcaca gactgtagac 1560
tttcagcagc aatctcagaa gcttacaaat agatttccat gaagatattt gtcttcagaa 1620
ttaaaactgc ccttaatttt aatatacctt tcaatcggcc actggccatt ttttctaag 1680
tattcaatta agtgggaatt ttctggaaga tggtcagcta tgaagtaata gagtttgctt 1740
aatcatttgt aattcaaaca tgctatattt tttaaaatca atgtgaaaac atagacttat 1800
ttttaaattg taccaatcac aagaaaataa tggcaataat tatcaaaact tttaaaatag 1860
atgctcatat ttttaaaata aagtttaaa aataaaaaa                         1899
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<210> 154
<211> 463
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 014284CD1

<400> 154

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                20                  25                  30
Thr Tyr Leu Asp Leu Leu Gly Thr Trp Val Phe Gln Val Gly Ser
                35                  40                  45
Ser Gly Ser Gln Arg Asp Val Asn Cys Ser Val Met Gly Pro Gln
                50                  55                  60
Glu Lys Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr
                65                  70                  75
Asp Asp Leu Gly Asn Ser Gly His Phe Thr Ile Ile Tyr Asn Gln
                80                  85                  90
Gly Phe Glu Ile Val Leu Asn Asp Tyr Lys Trp Phe Ala Phe Phe
                95                  100                 105
Lys Tyr Lys Glu Glu Gly Ser Lys Val Thr Thr Tyr Cys Asn Glu
                110                 115                 120
Thr Met Thr Gly Trp Val His Asp Val Leu Gly Arg Asn Trp Ala
                125                 130                 135
Cys Phe Thr Gly Lys Lys Val Gly Thr Ala Ser Glu Asn Val Tyr
                140                 145                 150
Val Asn Thr Ala His Leu Lys Asn Ser Gln Glu Lys Tyr Ser Asn
                155                 160                 165
Arg Leu Tyr Lys Tyr Asp His Asn Phe Val Lys Ala Ile Asn Ala
                170                 175                 180
Ile Gln Lys Ser Trp Thr Ala Thr Thr Tyr Met Glu Tyr Glu Thr
                185                 190                 195
Leu Thr Leu Gly Asp Met Ile Arg Arg Ser Gly Gly His Ser Arg
                200                 205                 210
Lys Ile Pro Arg Pro Lys Pro Ala Pro Leu Thr Ala Glu Ile Gln
                215                 220                 225
Gln Lys Ile Leu His Leu Pro Thr Ser Trp Asp Trp Arg Asn Val
                230                 235                 240
His Gly Ile Asn Phe Val Ser Pro Val Arg Asn Gln Ala Ser Cys
                245                 250                 255
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157

```
Gly Ser Cys Tyr Ser Phe Ala Ser Met Gly Met Leu Glu Ala Arg
                260                 265                 270
Ile Arg Ile Leu Thr Asn Asn Ser Gln Thr Pro Ile Leu Ser Pro
                275                 280                 285
Gln Glu Val Val Ser Cys Ser Gln Tyr Ala Gln Gly Cys Glu Gly
                290                 295                 300
Gly Phe Pro Tyr Leu Ile Ala Gly Lys Tyr Ala Gln Asp Phe Gly
                305                 310                 315
Leu Val Glu Glu Ala Cys Phe Pro Tyr Thr Gly Thr Asp Ser Pro
                320                 325                 330
Cys Lys Met Lys Glu Asp Cys Phe Arg Tyr Tyr Ser Ser Glu Tyr
                335                 340                 345
His Tyr Val Gly Gly Phe Tyr Gly Gly Cys Asn Glu Ala Leu Met
                350                 355                 360
Lys Leu Glu Leu Val His His Gly Pro Met Ala Val Ala Phe Glu
                365                 370                 375
Val Tyr Asp Asp Phe Leu His Tyr Lys Lys Gly Ile Tyr His His
                380                 385                 390
Thr Gly Leu Arg Asp Pro Phe Asn Pro Phe Glu Leu Thr Asn His
                395                 400                 405
Ala Val Leu Leu Val Gly Tyr Gly Thr Asp Ser Ala Ser Gly Met
                410                 415                 420
Asp Tyr Trp Ile Val Lys Asn Ser Trp Gly Thr Gly Trp Gly Glu
                425                 430                 435
Asn Gly Tyr Phe Arg Ile Arg Arg Gly Thr Asp Glu Cys Ala Ile
                440                 445                 450
Glu Ser Ile Ala Val Ala Ala Thr Pro Ile Pro Lys Leu
                455                 460
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<210> 155
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1095192.1

<400> 155
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actgctgaag ataagatgca caatggctag tcagactgta gggaccagtt caagggggtg 180
caaacctgtg attttggggt tgtttaacat gaaacacttt agtgtagtaa ttgtatccac 240
tgtttgcatt tcaactgcca catttgtcac attttttatgg aatctgttag tggattcatc 300
tttttgttaa tccatgtgtt tattatatgt gactatttt gtaaacgaag tttctgttga 360
gaaataggct aaggacctct ataacaggta tgccacctgg ggggtatggc aaccacatgg 420
ccctcccagc tacacaaagt cgtggtttgc atgagggcat gctgcactta gagatcatgc 480
atgagaaaaa gtcacaagaa aaacaaattc ttaaatttca ccatatttct gggaggggta 540
attgggtgat aagtggaggt gctttgttga tcttgttttg cgaaatccag cccctagacc 600
aagtagattg tttgtgggta ggccagtaaa tcttagcagg tgcaaacttc attcaaatgt 660
ttggagtcat aaatgttatg tttctttag ttgtattaaa aaaaaacct gaatagtgaa 720
tatggccccct caccctccac cgccagaaga ctgaatggac caaaattact cttttataaat 780
ttctgctttt tcctgcactt ggtttagcca tcttcggctc tcagcaaggt tgacactgta 840
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```

<210> 156
<211> 717

158

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 233003.20

<220>
<221> unsure
<222> 564, 622, 669, 677, 700
<223> a, t, c, g, or other

<400> 156
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tttcttcaag agctggtaga tcgggataat tccaaatttg aggagtggtg tattgaaatg 60
gctgagatac gtaagcaaag tgtggataaa ggaaaagcaa aacacgaaga gttaaggagc 120
tgtaccaaag gttacctgct ggagctgagc cctatgagtt tgtctctctg gaatggctgc 180
aaaagtggtt ggatgaatca acacctacca aacctattga taatcacgct tgcctgtgtt 240
cccatgacaa gcttcacccg gataaaatat caattatgaa gaggatatct gaatatgcag 300
ctgacatttt ctatagtaga tatggaggag gtccaagact aactgtgaaa gccctgtgta 360
aggaatgtgt agtagaacgt tgtcgcatat tgcgtctgaa gaaccaacta aatgaagatt 420
ataaaactgt taataatctg ctgaaagcag cagtaaaggg cgatggattt tgggtgggga 480
agtcctcctt gcggagttgg cgccagctag ctcttgaaca gctggatgag caagatggtg 540
atgcagaaca aagcaacgga aagntgaacg gtagcacctt aaataaagat gaatcaaagg 600
aagaaagaaa agaagaggag gnattaaatt ttaatgaaga tattctgtgt ccacatggtg 660
agttatgcnt atctganaat gaaagaaggc ttgtttctan agaggcttgg agcaaac    717
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<210> 157
<211> 2510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1911808CB1

<400> 157
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tttcaaatgc catcagtaca tctggatgaa gaattacagt gttaacagcg tcttctgaag 120
tgtgctcata ttcgctgagt tttatttcag tttggcttct catttgaatt ttcagatgta 180
tatcacatat atgtgaaaag tactgacaaa aataatttat gaaataaaca cagtagggca 240
tgaggttgtg ttatttgtga ggcagcaatg gagcatgact tgtagtcaac aaacatgggt 300
gtcctgatca aagctctgct gtgctattcg gcaagactct atgtggatgc ctcttgtaga 360
atgtggttaa taataccagc cgatctcata gggcactgtg cagactcagc attatggtgc 420
acagctcctt gaactcatag gagtggcact taactggagc tttgtgtcgt actcatcaaa 480
catcttcccc cagacaatga ttcttctgat tctgctaact ctggacagag tttgcattgt 540
cttttgagaa aaatgaattt atcacttagt caaaaaactg taaaaataca taggctcttt 600
ccgatgcttg ctttctcaga gccctatgag tttgtctctc tggaatggct gcaaaagtgg 660
ttggatgaat caacacctac caaacctatt gataatcacg cttgcctgtg ttcccatgac 720
aagcttcacc cggataaaat atcaattatg aagaggatat ctgaatatgc agctgacatt 780
ttctatagta gatatggagg aggtccaaga ctaactgtga aagccctgtg taaggaatgt 840
gtagtagaac gttgtcgcat attgcgtctg aagaaccaac taaatgaaga ttataaaact 900
gttaataatc tgctgaaagc agcagtaaag ggcagcgatg gattttgggt ggggaagtcc 960
tccttgcgga gttggcgcca gctagctctt gaacagctgg atgagcaaga tggtgatgca 1020
gaacaaagca acggaaagat gaacggtagc accttaaata aagatgaatc aaaggaagaa 1080
agaaagaag aggaggaatt aaattttaat gaagatattc tgtgtccaca tggtgagtta 1140
tgcatatctg aaaatgaaag aaggcttgtt tctaaagagg cttggagcaa actgcagcag 1200
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tactttccaa aggctcctga gtttccaagt tacaaagagt gctgttcaca gtgcaagatt 1260
ttagaaagag aaggggaaga aaatgaagcc ttacataaga tgattgcaaa cgagcaaaag 1320
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gatacggatg tcctctacat cgtgtctcag ttctttgtag aagagtggcg gaaatttgtt 1440
agaaagccta caagatgcag ccctgtgtca tcagttggga acagtgctct tttgtgtccc 1500
cacggggggcc tcatgtttac atttgcttcc atgaccaaag aagattctaa acttatagct 1560
ctcatatggc ccagtgagtg gcaaatgata caaaagctct tgttgtgga tcatgtaatt 1620
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cccaaactct gtccagaatg cagagaaggc ttattgtgtc agcagcagag ggacctgcgt 1740
gaatacactc aagccaccat ctatgtccat aaagttgtgg ataataaaaa ggtgatgaag 1800
gattcggctc cggaactgaa tgtgagtagt tctgaaacag aggaggacaa ggaagaagct 1860
aaaccagatg gagaaaaaga tccagatttt aatcaaagca atggtggaac aaagcggcaa 1920
aagatatccc atcaaaatta tatagcctat caaaagcaag ttattcgccg aagtatgcga 1980
catagaaaag ttcgtggtga gaaagcactt ctcgtttctg ctaatcagac gttaaaagaa 2040
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aatccattca aacgtgactg tcccaaatgc cttatgtcaa ataaagcaga ttgcactgat 2460
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<210> 158
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1911808CD1

<400> 158

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                20                  25                  30
Val Val Asp His Val Ile Lys Ile Thr Arg Ile Glu Val Gly Asp
                35                  40                  45
Val Asn Pro Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys Leu Cys
                50                  55                  60
Pro Glu Cys Arg Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp Leu
                65                  70                  75
Arg Glu Tyr Thr Gln Ala Thr Ile Tyr Val His Lys Val Val Asp
                80                  85                  90
Asn Lys Lys Val Met Lys Asp Ser Ala Pro Glu Leu Asn Val Ser
                95                  100                 105
Ser Ser Glu Thr Glu Glu Asp Lys Glu Glu Ala Lys Pro Asp Gly
                110                 115                 120
Glu Lys Asp Pro Asp Phe Asn Gln Ser Asn Gly Gly Thr Lys Arg
                125                 130                 135
Gln Lys Ile Ser His Gln Asn Tyr Ile Ala Tyr Gln Lys Gln Val
                140                 145                 150
Ile Arg Arg Ser Met Arg His Arg Lys Val Arg Gly Glu Lys Ala
                155                 160                 165
Leu Leu Val Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln
```

160

```
              170                 175                 180
Ile Met His Ala Phe Ser Val Ala Pro Phe Asp Gln Asn Leu Ser
              185                 190                 195
Ile Asp Gly Lys Ile Leu Ser Asp Asp Cys Ala Thr Leu Gly Thr
              200                 205                 210
Leu Gly Val Ile Pro Glu Ser Val Ile Leu Leu Lys Ala Asp Glu
              215                 220                 225
Pro Ile Ala Asp Tyr Ala Ala Met Asp Asp Val Met Gln Val Cys
              230                 235                 240
Met Pro Glu Glu Gly Phe Lys Gly Thr Gly Leu Leu Gly His
              245                 250
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<210> 159
<211> 4266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978276.8

<220>
<221> unsure
<222> 1545, 1608, 1611, 1615, 1619, 3504-3528
<223> a, t, c, g, or other

<400> 159
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tgccgcgggc agaaagttgc cggaggtctc cgggtggtat cgccctttcc tctttgccag 180
cccgctggcg agccgagccg gggcaagatg aggtcgtcct gtgtcctgct caccgccctg 240
gtggcgctgg ccgcctatta cgtctacatc ccgctgcctg gctccgtgtc cgacccctgg 300
aagctgatgc tgctggacgc cactttccgg ggtgcacagc aagtgagtaa cctgatccac 360
tacctgggac tgagccatca cctgctggca ctgaatttta tcattgtttc ttttggcaaa 420
aaaagcgcgt ggtcttctgc ccaagtgaag gtgaccgaca cagactttga tggtgtggaa 480
gtcagagtgt ttgaaggccc tccgaagccc gaagagccac tgaaacgcag cgtcgtttat 540
atccacggag gaggctgggc cttggcaagt gcaaaaatca ggtattatga tgagctgtgt 600
acagcaatgg ctgaggaatt gaatgctgtc attgtttcca ttgaatacag gctagttcca 660
aaggtttatt ttcctgagca aattcatgat gttgtacggg ccacaaagta tttcctgaag 720
ccagaagtct tacagaagta tatggttgat ccaggcagaa tttgcatttc tggtgacagt 780
gctggtggaa atctggctgc tgcccttgga caacagttta ctcaagatgc cagcctaaaa 840
aaataagctc aaactacaag ctttaattta tccagttctt caagctttag attttaacac 900
accatcttat cagcaaaatg tgaacacccc aatcctgccc cgctatgtca tggtgaagta 960
ttgggtggac tacttcaaag gcaactatga ctttgtgcag gcaatgatcg ttaacaatca 1020
cacttcactt gatgtggaag aggctgctgc tgtcagggcc cgtctaaact ggacatccct 1080
cttgcctgca tccttcacaa agaactacaa gcctgttgta cagaccacag gcaatgccag 1140
gattgtccag gagcttcctc agttgctgga tgcccgctcc gccccactca ttgcagacca 1200
ggcagtgctg cagctcctcc caaagaccta cattctgacg tgtgagcatg atgtcctcag 1260
agacgatggc atcatgtatg ccaagcgttt ggagagtgcc ggtgtggagg tgaccctgga 1320
tcactttgag gatggctttc acggatgtat gattttcact agctggccca ccaacttctc 1380
agtgggaatc cggactagga atagttacat caagtggcta gatcaaaacc tgtaaaggag 1440
caaaacttcc agaagcctcg agcccctctt gacctcctac acctgctttg gaaagacatg 1500
cactttttag ttgactaatt cttcctccca ttcccctcta cttgngagtt atggaatttc 1560
tagtccataa ctgaagtctt tatgataacg ggttttttaa aatgaatntg nctancttna 1620
gttcaaaaca tgtaaatttg gttcccagag tgggccaatc tctctggtct tggtatctta 1680
gccaactata ctgataccta cagctacaga aagcaggact aggaactgga aataactttg 1740
ggtcctgcct tcattaggac gttcttttta gaagcagttc ttccagctct ggatcataga 1800
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161

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gtgaccttta ataagttaaa aaaacgagga ctccttaatt ctgctagagt taaccttgag 1860
ttcagagcag tattaaatgc gtgcactttc aggtcagtac tggggaccaa gtaccctctg 1920
gtcttttgtg aatggatggt tttgtttcct atgggaattt tggcaaaggt tttctggaaa 1980
gaacaagttt ctcaaaggac tttcttcctc tagaatgttc attttatgag atcgctatct 2040
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tgaagtcgca tgcactggat atctatatat cattaggttt ttgttgtgtt tttggttatg 2160
ctgtcccct tctccttggg gagatatttg ggagcaaact tatttagatt tagagtaaac 2220
ttttcattat agagcaagta aaaacagaca aatgaaacaa cctagtgttt cacataaaaa 2280
tacttctgac ataaagtacc aagagcagtg tgaatatact tggcatagtc aaaaaagaaa 2340
atacatttaa tattagttca aaattgttaa aaataccttt agaaggtcta gtctattatt 2400
gaaaactcaa tttttttcact tatatggctt taaaatggag ctattttgct acaatataat 2460
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gttttaaaac cttccctaca gttataacca cgtgtaattt tgtggaaatg atataacagc 2640
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tcttattctg tgataactat cctcctcata taatactatt ctttttgaca ccatttgaag 3600
gaaccaatat ttggacctta ttttgaggtt gtctgtctcg aagaaaaaga aaataaaatg 3660
tataggcagg gttccttcaa ttggcatttt ccccagaatt gtgagccaaa gcctatagta 3720
attgcagaca gcaaatgatt ccggatctct aaaaggctct ctcagatgaa aagggagtaa 3780
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tataaacatt aatatataaa gaaaaacctt gaagtgctgt atagtgaagt ataaattaat 4020
gttttattga tttgtgaaga atttaagact attatataat tatcttggtg gatctatttt 4080
atgcatgacc tttttaacctt tgactttgct tatttcccac tacgaagggg aaggtagatt 4140
ttatgaatga tttttaatagc aaatatattt tataaagtga aaatccagtg tggaggtagc 4200
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tttcaa                                                             4266
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<210> 160
<211> 1056
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 405844.21

<400> 160
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tgggtctgtg ctgcagtctg ggccgctgct gatcgccaca ccgtcttctg gaacagttca 180
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162

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aatcccaagt tccggaatga ggactacacc atacatgtgc agctgaatga ctacgtggac 240
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ctgtacctgg tggagcatga ggagtaccag ctgtgccagc cccagtccaa ggaccaagtc 360
cgctggcagt gcaaccggcc cagtgccaag catggcccgg agaagctgtc tgagaagttc 420
cagcgcttca cacctttcac cctgggcaag gagttcaaag aaggacacag ctactactac 480
atctctcaca gtcctcaggc ccatgtcaat ccacaggaga agagacttgc agcagatgac 540
ccagaggtgc gggttctaca tagcatcggt cacagtgctg ccccacgcct cttcccactt 600
gcctggactg tgctgctcct tccacttctg ctgctgcaaa ccccgtgaag gtgtatgcca 660
cacctggcct taaagaggga caggctgaag agagggacag gcactccaaa cctgtcttgg 720
ggccactttc agagccccca gccctgggaa ccactcccac cacaggcata agctatcacc 780
tagcagcctc aaaacgggtc aatattaagg ttttcaaccg gaaggaggcc aaccagcccg 840
acagtgccat ccccaccttc acctcggagg gatggagaaa gaagtggaga cagtcctttc 900
ccaccattcc tgcctttaag ccaaagaaac aagctgtgca ggcatggtcc cttaaggcac 960
agtgggagct gagctggaag gggccacgtg gatgggcaaa gcttgtcaaa gatgcccct 1020
ccaggagaga gccaggatgc ccagatgaac tgactg                            1056
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<210> 161
<211> 1557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 405844.22

<400> 161
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acccagaccc ataggagacc cgcgtccccg ctcggcctgg ccaggccccg cgctatggag 120
ttcctctggg cccctctctt gggtctgtgc tgcagtctgg ccgctgctga tcgccacacc 180
gtcttctgga acagttcaaa tcccaagttc cggaatgagg actacaccat acatgtgcag 240
ctgaatgact acgtggacat catctgtccg cactatgaag atcactctgt ggcagacgct 300
gccatggagc agtacatact gtacctggtg gagcatgagg agtaccagct gtgccagccc 360
cagtccaagg accaagtccg ctggcagtgc aaccggccca gtgccaagca tggcccggag 420
aagctgtctg agaagttcca gcgcttcaca cctttcaccc tgggcaagga gttcaaagaa 480
ggacacagct actactacat ctccaaaccc atccaccagc atgaagaccg ctgcttgagg 540
ttgaaggtga ctgtcagtgg caaaatcact cacagtcctc aggcccatgt caatccacag 600
gagaagagac ttgcagcaga tgacccagag gtgcgggttc tacatagcat cggtcacagt 660
gctgccccac gcctcttccc acttgcctgg actgtgctgc tccttccact tctgctgctg 720
caaaccccgt gaaggtgtat gccacacctg gccttaaaga gggacaggct gaagagaggg 780
acaggcactc caaacctgtc ttggggccac tttcagagcc cccagccctg ggaaccactc 840
ccaccacagg cataagctat gcacctagca gcctcaaaac gggtcaatat taaggttttc 900
aaccggaagg aggccaacca gcccgacagt gccatcccca ccttcacctc ggagggatgg 960
agaaagaagt ggagacagtc ctttcccacc attcctgcct ttaagccaaa gaaacaagct 1020
gtgcaggcat ggtcccttaa ggcacagtgg gagctgagct ggaaggggcc acgtggatgg 1080
gcaaagcttg tcaaagatgc cccctccagg agagagccag gatgcccaga tgaactgact 1140
gaaggaaaag caagaaacag tttcttgctt ggaagccagg tacaggagag cagcatgct 1200
tgggctgacc cagcatctcc cagcaagacc tcatctgtgg agctgccaca gagaagtttg 1260
tagccaggta ctgcattctc tcccatcctg gggcagcact ccccagagct gtgccagcag 1320
gggggctgtg ccaacctgtt cttagagtgt agctgtaagg gcagtgccca tgtgtacatt 1380
ctgcctagag tgtagcctaa agggcagggc ccacgtgtat agtatctgta tataagttgc 1440
tgtgtgtctg tcctgatttc tacaactgga gttttttat acaatgttct ttgtctcaaa 1500
ataaagcaat gtgttttttc gggaaaaaaa aaaaaacgg ccgctcgcga tcagaac    1557
```

```
<210> 162
<211> 2256
<212> DNA
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163

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2705515CB1

<400> 162
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cacgcgtccg cccacgcgtc cggctgatgc aatgaccagc taatggctcg attctcaaga 60
gggtttcatt ggtctcaacc tggcccccca ggcaacccac ccctgattgg acagtctcat 120
caagaaggtt ggtcaagagc tcaagtgttt ctgagaatct gggtgattta taagaaaccc 180
ttagctgaat gcagggtggg gagaacgaaa gacaaaagca tcttttttca gaagggaaac 240
tgaaagaaag aggggaagag tattaaagac catttctggc tgggcagggc actctcagca 300
gctcaactgc ccagcgtgac cagtggccac ctctgcagtg tcttccacaa cctggtcttg 360
actcgtctgc tgaacaaatc ctctgacctc aggccggctg tgaacgtagt tcctgagaga 420
tagcaaacat gcccaacagt gagcccgcat ctctgctgga gctgttcaac agcatcgcca 480
cacaagggga gctcgtaagg tccctcaaag cgggaaatgc gtcaaaggat gaaattgatt 540
ctgcagtaaa gatgttggtg tcattaaaaa tgagctacaa agctgccgcg ggggaggatt 600
acaaggctga ctgtcctcca gggaacccag cacctaccag taatcatggc ccagatgcca 660
cagaagctga agaggatttt gtggacccat ggacagtaca gacaagcagt gcaaaaggca 720
tagactacga taagctcatt gttcggtttg gaagtagtaa aattgacaaa gagctaataa 780
accgaataga gagagccacc ggccaaagac cacaccactt cctgcgcaga ggcatcttct 840
tctcacacag agatatgaat caggttcttg atgcctatga aaataagaag ccattttatc 900
tgtacacggg ccggggcccc tcttctgaag caatgcatgt aggtcacctc attccattta 960
ttttcacaaa gtggctccag gatgtatttta acgtgccctt ggtcatccag atgacggatg 1020
acgagaagta tctgtggaag gacctgaccc tggaccaggc ctatagctat gctgtggaga 1080
atgccaagga catcatcgcc tgtggctttg acatcaacaa gactttcata ttctctgacc 1140
tggactacat ggggatgagc tcaggtttct acaaaaatgt ggtgaagatt caaaagcatg 1200
ttaccttcaa ccaagtgaaa ggcatttttcg gcttcactga cagcgactgc attgggaaga 1260
tcagtttttcc tgccatccag gctgctccct ccttcagcaa ctcattccca cagatcttcc 1320
gagacaggac ggatatccag tgccttatcc catgtgccat tgaccaggat ccttacttta 1380
gaatgacaag ggacgtcgcc cccaggatcg gctatcctaa accagccctg ttgcactcca 1440
ccttcttccc agccctgcag ggcgcccaga ccaaaatgag tgccagcgac cccaactcct 1500
ccatcttcct caccgacacg gccaagcaga tcaaaaccaa ggtcaataag catgcgtttt 1560
ctggagggag agacaccatc gaggagcaca ggcagtttgg gggcaactgt gatgtggacg 1620
tgtctttcat gtacctgacc ttcttcctcg aggacgacga caagctcgag cagatcagga 1680
aggattacac cagcggagcc atgctcaccg gtgagctcaa gaaggcactc atagaggttc 1740
tgcagccctt gatcgcagag caccaggccc ggcgcaagga ggtcacggat gagatagtga 1800
aagagttcat gactccccgg aagctgtcct tcgactttca gtagcactcg ttttacatat 1860
gcttataaaa gaagtgatgt atcagtaatg tatcaataat cccagcccag tcaaagcacc 1920
gccacctgta ggcttctgtc tcatggtaat tactgggcct ggcctctgta agcctgtgta 1980
tgttatcaat actgtttctt cctgtgagtt ccattatttc tatctcttat gggcaaagca 2040
ttgtgggtaa ttggtgctgg ctaacattgc atggtcggat agagaagtcc agctgtgagt 2100
ctctccccaa agcagcccca cagtggagcc tttggctgga agtccatggg ccaccctgtt 2160
cttgtccatg gaggactccg agggttccaa gtatactctt aagacccact ctgtttaaaa 2220
atatatattc tatgtatgcg taaaaaaaaa aaaaaa                            2256
```

<210> 163
<211> 471
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2705515CD1

<400> 163

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Ile Ala Thr Gln Gly Glu Leu Val Arg Ser Leu Lys Ala Gly Asn
             20                  25                      30
Ala Ser Lys Asp Glu Ile Asp Ser Ala Val Lys Met Leu Val Ser
             35                  40                      45
Leu Lys Met Ser Tyr Lys Ala Ala Ala Gly Glu Asp Tyr Lys Ala
             50                  55                      60
Asp Cys Pro Pro Gly Asn Pro Ala Pro Thr Ser Asn His Gly Pro
             65                  70                      75
Asp Ala Thr Glu Ala Glu Glu Asp Phe Val Asp Pro Trp Thr Val
             80                  85                      90
Gln Thr Ser Ser Ala Lys Gly Ile Asp Tyr Asp Lys Leu Ile Val
             95                 100                     105
Arg Phe Gly Ser Ser Lys Ile Asp Lys Glu Leu Ile Asn Arg Ile
            110                 115                     120
Glu Arg Ala Thr Gly Gln Arg Pro His His Phe Leu Arg Arg Gly
            125                 130                     135
Ile Phe Phe Ser His Arg Asp Met Asn Gln Val Leu Asp Ala Tyr
            140                 145                     150
Glu Asn Lys Lys Pro Phe Tyr Leu Tyr Thr Gly Arg Gly Pro Ser
            155                 160                     165
Ser Glu Ala Met His Val Gly His Leu Ile Pro Phe Ile Phe Thr
            170                 175                     180
Lys Trp Leu Gln Asp Val Phe Asn Val Pro Leu Val Ile Gln Met
            185                 190                     195
Thr Asp Asp Glu Lys Tyr Leu Trp Lys Asp Leu Thr Leu Asp Gln
            200                 205                     210
Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys Asp Ile Ile Ala Cys
            215                 220                     225
Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser Asp Leu Asp Tyr
            230                 235                     240
Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val Lys Ile Gln
            245                 250                     255
Lys His Val Thr Phe Asn Gln Val Lys Gly Ile Phe Gly Phe Thr
            260                 265                     270
Asp Ser Asp Cys Ile Gly Lys Ile Ser Phe Pro Ala Ile Gln Ala
            275                 280                     285
Ala Pro Ser Phe Ser Asn Ser Phe Pro Gln Ile Phe Arg Asp Arg
            290                 295                     300
Thr Asp Ile Gln Cys Leu Ile Pro Cys Ala Ile Asp Gln Asp Pro
            305                 310                     315
Tyr Phe Arg Met Thr Arg Asp Val Ala Pro Arg Ile Gly Tyr Pro
            320                 325                     330
Lys Pro Ala Leu Leu His Ser Thr Phe Phe Pro Ala Leu Gln Gly
            335                 340                     345
Ala Gln Thr Lys Met Ser Ala Ser Asp Pro Asn Ser Ser Ile Phe
            350                 355                     360
Leu Thr Asp Thr Ala Lys Gln Ile Lys Thr Lys Val Asn Lys His
            365                 370                     375
Ala Phe Ser Gly Gly Arg Asp Thr Ile Glu Glu His Arg Gln Phe
            380                 385                     390
Gly Gly Asn Cys Asp Val Asp Val Ser Phe Met Tyr Leu Thr Phe
            395                 400                     405
Phe Leu Glu Asp Asp Asp Lys Leu Glu Gln Ile Arg Lys Asp Tyr
            410                 415                     420
```

165

```
Thr Ser Gly Ala Met Leu Thr Gly Glu Leu Lys Lys Ala Leu Ile
                425                 430             435
Glu Val Leu Gln Pro Leu Ile Ala Glu His Gln Ala Arg Arg Lys
                440                 445             450
Glu Val Thr Asp Glu Ile Val Lys Glu Phe Met Thr Pro Arg Lys
                455                 460             465
Leu Ser Phe Asp Phe Gln
                470
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<210> 164
<211> 3290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2023119CB1

<400> 164

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aaggtcgtga gtcccgctga gctgtccccg gtgccgccga cccgggccgt gtgcccgtgg 120
ctccagccgc tgccgcctcg atctcctcgt ctcccgctcc gccctccctt ttccctggat 180
gaacttgcgt cctttctctt ctccgccatg gaattctgct ccgtgctttt agccctcctg 240
agccaaagaa accccagaca acagatgccc atacgcagcg tatagcagta actccccagc 300
tcggtttctg tgccgtagtt tacagtattt aattttatat aatatatatt atttattata 360
gcatttttga tacctcatat tctgtttaca catcttgaaa ggcgctcagt agttctctta 420
ctaaacaacc actactccag agaatggcaa cggtgattac cagtactaca gctgctaccg 480
ccgcttctgg tcctttggtg gactacctat ggatgctcat cctgggcttc attattgcat 540
ttgtcttggc attctccgtg ggagccaatg atgtagcaaa ttcttttggt acagctgtgg 600
gctcaggtgt agtgaccctg aagcaagcct gcatcctagc tagcatcttt gaaacagtgg 660
gctctgtctt actggggggcc aaagtgagcg aaaccatccg gaagggcttg attgacgtgg 720
agatgtacaa ctcgactcaa gggctactga tggccggctc agtcagtgct atgtttggtt 780
ctgctgtgtg gcaactcgtg gcttcgtttt tgaagctccc tatttctgga acccattgta 840
ttgttggtgc aactattggt ttctccctcg tggcaaaggg gcaggagggt gtcaagtggt 900
ctgaactgat aaaaaattgtg atgtcttggt tcgtgtcccc actgctttct ggaattatgt 960
ctggaatttt attcttcctg gttcgtgcat tcatcctcca taaggcagat ccagttccta 1020
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tcatgtatac tggagcaccg ttgctgggct ttgacaaact tcctctgtgg ggtaccatcc 1140
tcatctcggt gggatgtgca gtttctgtg cccttatcgt ctggttcttt gtatgtccca 1200
ggatgaagag aaaaattgaa cgagaaataa agtgtagtcc ttctgaaagc cccttaatgg 1260
aaaaaaagaa tagcttgaaa aagaccatg aagaaacaaa gttgtctgtt ggtgatattg 1320
aaaacaagca tcctgtttct gaggtagggc ctgccactgt gccctccag gctgtggtgg 1380
aggagagaac agtctcattc aaacttggag atttggagga agctccagag agagagaggc 1440
ttcccagcgt ggacttgaaa gaggaaacca gcatagatag caccgtgaat ggtgcagtgc 1500
agttgcctaa tgggaacctt gtccagttca gtcaagccgt cagcaaccaa ataaactcca 1560
gtggccacta ccagtatcac accgtgcata aggattccgg cctgtacaaa gagctactcc 1620
ataaattaca tcttgccaag gtgggagatt gcatgggaga ctccggtgac aaacccttaa 1680
ggcgcaataa tagctatact tcctatacca tggcaatatg tggcatgcct ctggattcat 1740
tccgtgccaa agaaggtgaa cagaagggcg aagaaatgga gaagctgaca tggcctaatg 1800
cagactccaa gaagcgaatt cgaatggaca gttacaccag ttactgcaat gctgtgtctg 1860
accttcactc agcatctgag atagacatga gtgtcaaggc agagatgggt ctaggtgaca 1920
gaaaaggaag taatggctct ctagaagaat ggtatgacca ggataagcct gaagtctctc 1980
tcctcttcca gttcctgcag atccttacag cctgctttgg gtcattcgcc catggtggca 2040
atgacgtaag caatgccatt gggcctctgg ttgctttata tttggtttat gacacaggag 2100
atgtttcttc aaaagtggca acaccaatat ggcttctact ctatggtggt gttggtatct 2160
gtgttggtct gtgggtttgg ggaagaagag ttatccagac catggggaag gatctgacac 2220
cgatcacacc ctctagtggc ttcagtattg aactggcatc tgccctcact gtggtgattg 2280
```

```
catcaaatat tggccttccc atcagtacaa cacattgtaa agtgggctct gttgtgtctg 2340
ttggctggct ccggtccaag aaggctgttg actggcgtct ctttcgtaac attttttatgg 2400
cctggtttgt cacagtcccc atttctggag ttatcagtgc tgccatcatg gcaatcttca 2460
gatatgtcat cctcagaatg tgaagctgtt tgagattaaa atttgtgtca atgtttggga 2520
ccatcttagg tattcctgct cccctgaaga atgattacag tgttaacaga agactgacaa 2580
gagtcttttt atttgggagc cagaggaggg aagtgttact tgtgctataa ctgctttttgt 2640
gctaaatatg aattgtctca aaattagctg tgtaaaatag cccgggttcc actggctcct 2700
gctgaggtcc cctttccttc tgggctgtga attcctgtac atatttctct acttttttgta 2760
tcaggcttca attccattat gttttaatgt tgtctctgaa gatgacttgt gatttttttt 2820
tctttttttt aaaccatgaa gagccgtttg acagagcatg ctctgcgttg ttggtttcac 2880
cagcttctgc cctcacatgc acagggattt aacaacaaaa atataactac aacttccctt 2940
gtagtctctt atataagtag agtccttggt actctgccct cctgtcagta gtggcaggat 3000
ctattggcat attcgggagc ttcttagagg gatgaggttc tttgaacaca gtgaaaattt 3060
aaattagtaa cttttttgca agcagtttat tgactgttat tgctaagaag aagtaagaaa 3120
gaaaaagcct gttggcaatc ttggttattt ctttaagatt tctggcagtg tgggatggat 3180
gaatgaagtg gaatgtgaac tttgggcaag ttaaatggga cagccttcca tgttcatttg 3240
tctacctctt aactgaataa aaaagcctac agttttttaga aaaaaaaaaa 3290
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<210> 165
<211> 679
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2023119CD1

<400> 165

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Met Ala Thr Val Ile Thr Ser Thr Thr Ala Ala Thr Ala Ala Ser
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Gly Pro Leu Val Asp Tyr Leu Trp Met Leu Ile Leu Gly Phe Ile
                20                  25                  30
Ile Ala Phe Val Leu Ala Phe Ser Val Gly Ala Asn Asp Val Ala
                35                  40                  45
Asn Ser Phe Gly Thr Ala Val Gly Ser Gly Val Val Thr Leu Lys
                50                  55                  60
Gln Ala Cys Ile Leu Ala Ser Ile Phe Glu Thr Val Gly Ser Val
                65                  70                  75
Leu Leu Gly Ala Lys Val Ser Glu Thr Ile Arg Lys Gly Leu Ile
                80                  85                  90
Asp Val Glu Met Tyr Asn Ser Thr Gln Gly Leu Leu Met Ala Gly
                95                  100                 105
Ser Val Ser Ala Met Phe Gly Ser Ala Val Trp Gln Leu Val Ala
                110                 115                 120
Ser Phe Leu Lys Leu Pro Ile Ser Gly Thr His Cys Ile Val Gly
                125                 130                 135
Ala Thr Ile Gly Phe Ser Leu Val Ala Lys Gly Gln Glu Gly Val
                140                 145                 150
Lys Trp Ser Glu Leu Ile Lys Ile Val Met Ser Trp Phe Val Ser
                155                 160                 165
Pro Leu Leu Ser Gly Ile Met Ser Gly Ile Leu Phe Phe Leu Val
                170                 175                 180
Arg Ala Phe Ile Leu His Lys Ala Asp Pro Val Pro Asn Gly Leu
                185                 190                 195
Arg Ala Leu Pro Val Phe Tyr Ala Cys Thr Val Gly Ile Asn Leu
                200                 205                 210
```

167

```
Phe Ser Ile Met Tyr Thr Gly Ala Pro Leu Leu Gly Phe Asp Lys
            215                 220                 225
Leu Pro Leu Trp Gly Thr Ile Leu Ile Ser Val Gly Cys Ala Val
            230                 235                 240
Phe Cys Ala Leu Ile Val Trp Phe Phe Val Cys Pro Arg Met Lys
            245                 250                 255
Arg Lys Ile Glu Arg Glu Ile Lys Cys Ser Pro Ser Glu Ser Pro
            260                 265                 270
Leu Met Glu Lys Lys Asn Ser Leu Lys Glu Asp His Glu Glu Thr
            275                 280                 285
Lys Leu Ser Val Gly Asp Ile Glu Asn Lys His Pro Val Ser Glu
            290                 295                 300
Val Gly Pro Ala Thr Val Pro Leu Gln Ala Val Val Glu Glu Arg
            305                 310                 315
Thr Val Ser Phe Lys Leu Gly Asp Leu Glu Glu Ala Pro Glu Arg
            320                 325                 330
Glu Arg Leu Pro Ser Val Asp Leu Lys Glu Glu Thr Ser Ile Asp
            335                 340                 345
Ser Thr Val Asn Gly Ala Val Gln Leu Pro Asn Gly Asn Leu Val
            350                 355                 360
Gln Phe Ser Gln Ala Val Ser Asn Gln Ile Asn Ser Ser Gly His
            365                 370                 375
Tyr Gln Tyr His Thr Val His Lys Asp Ser Gly Leu Tyr Lys Glu
            380                 385                 390
Leu Leu His Lys Leu His Leu Ala Lys Val Gly Asp Cys Met Gly
            395                 400                 405
Asp Ser Gly Asp Lys Pro Leu Arg Arg Asn Asn Ser Tyr Thr Ser
            410                 415                 420
Tyr Thr Met Ala Ile Cys Gly Met Pro Leu Asp Ser Phe Arg Ala
            425                 430                 435
Lys Glu Gly Glu Gln Lys Gly Glu Glu Met Glu Lys Leu Thr Trp
            440                 445                 450
Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg Met Asp Ser Tyr Thr
            455                 460                 465
Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser Ala Ser Glu Ile
            470                 475                 480
Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp Arg Lys Gly
            485                 490                 495
Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys Pro Glu
            500                 505                 510
Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys Phe
            515                 520                 525
Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly
            530                 535                 540
Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser
            545                 550                 555
Ser Lys Val Ala Thr Pro Ile Trp Leu Leu Leu Tyr Gly Gly Val
            560                 565                 570
Gly Ile Cys Val Gly Leu Trp Val Trp Gly Arg Arg Val Ile Gln
            575                 580                 585
Thr Met Gly Lys Asp Leu Thr Pro Ile Thr Pro Ser Ser Gly Phe
            590                 595                 600
Ser Ile Glu Leu Ala Ser Ala Leu Thr Val Val Ile Ala Ser Asn
            605                 610                 615
Ile Gly Leu Pro Ile Ser Thr Thr His Cys Lys Val Gly Ser Val
            620                 625                 630
```

168

```
Val Ser Val Gly Trp Leu Arg Ser Lys Lys Ala Val Asp Trp Arg
            635                 640                 645
Leu Phe Arg Asn Ile Phe Met Ala Trp Phe Val Thr Val Pro Ile
            650                 655                 660
Ser Gly Val Ile Ser Ala Ala Ile Met Ala Ile Phe Arg Tyr Val
            665                 670                 675
Ile Leu Arg Met
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<210> 166
<211> 5163
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1000084.27

<220>
<221> unsure
<222> 4653-4674
<223> a, t, c, g, or other

<400> 166

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ttctagtcat gcgtgagtgc atctccatcc acgttggcca gggctggtgt ccagattggg 180
caatgcctgc tgggagctct actgcctgga acacggcatc cagcccgatg gccagatgcc 240
aagtgacaag accattgggg gaggagatga ttccttcaac accttcttca gtgaaacggg 300
tgctggcaag catgtgcccc gggcagtgtt tgtagacttg gaacccacag tcattgatga 360
agttcgcact ggcacttacc gccagctctt ccaccctgag caactcatca caggcaagga 420
agatgctgcc aataactatg cccgagggca ctacaccatt ggcaaggaga tcattgacct 480
cgtgttggac cgaattcgca agctggctga ccagtgcacc ggtcttcagg gcttcttggt 540
tttccacagc tttggtgggg gaactggttc tgggttcacc tcgctgctca tggaacgtct 600
ctcagttgat tatggcaaga agtccaagct ggagttctcc atttacccgg cgccccaggt 660
ttccacagct gtagttgagc cctacaactc catcctcacc acccacacca ccctggagca 720
ctctgattgt gccttcatgg tagacaatga ggccatctat gacatctgtc gtagaaacct 780
cgatatcgag cgcccaacct acactaacct taaccgcctt attagccaga ttgtgtcctc 840
catcactgct tccctgagat ttgatggagc cctgaatgtt gacctgacag aattccagac 900
caacctggtg ccctacccc gcatccactt ccctctggcc acatatgccc ctgtcatctc 960
tgctgagaaa gcctaccatg aacagctttc tgtagcagag atcaccaatg cttgctttga 1020
gccagccaac cagatggtga aatgtgaccc tcgccatggt aaatacatgg cttgctgcct 1080
gttgtaccgt ggtgacgtgg ttcccaaaga tgtcaatgct gccattgcca ccatcaaaac 1140
caagcgcagc atccagtttg tggattggtg ccccactggc ttcaaggttg gcatcaacta 1200
ccagcctccc actgtggtgc ctggtggaga cctggccaag gtacagagag ctgtgtgcat 1260
gctgagcaac accacagcca ttgctgaggc ctgggctcgc ctggaccaca gtttgacct 1320
gatgtatgcc aagcgtgcct ttgttcactg gtacgtgggt gaggggatgg aggaaggcga 1380
gttttcagag gcccgtgaag atatggctgc ccttgagaag gattatgagg aggttggtgt 1440
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169

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<213> Homo sapiens

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<211> 2024
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<213> Homo sapiens

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<220>
<221> unsure
<222> 164-227
<223> a, t, c, g, or other

<400> 168
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<210> 169

172

<211> 580
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 206044.1

<220>
<221> unsure
<222> 37, 62, 66, 351
<223> a, t, c, g, or other

<400> 169
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<220>
<221> unsure
<222> 484
<223> a, t, c, g, or other

<400> 170
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<213> Homo sapiens

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<221> unsure
<222> 2249, 2262
<223> a, t, c, g, or other

<400> 171

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PA-0035 US

<210> 172
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<213> Homo sapiens

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<223> Incyte ID No: 1094829.20

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<221> unsure
<222> 151-152
<223> a, t, c, g, or other

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175

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176

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177

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179

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agttagggaa agaccttctt aacatgtata ttgagacaga gggtaagatg ataatgcaag 2220
ataaattgga aaaagaaagg aatgatgcta aaaatgcagt tgaggaatat gtgtatgagt 2280
tcagagacaa gctgtgtgga ccatatgaaa aatttatatg tgagcaggat catcaaaatt 2340
ttttgagact cctcacagaa actgaagact ggctgtatga agaaggagag gaccaagcta 2400
aacaagcata tgttgacaag ttggaagaat taatgaaaat tggcactcca gttaaagttc 2460
ggtttcagga agctgaagaa cggccaaaaa tgtttgaaga actaggacag aggctgcagc 2520
attatgccaa gatagcagct gacttcagaa ataaggatga gaaatacaac catattgatg 2580
agtctgaaat gaaaaaagtg gagaagtctg ttaatgaagt gatggaatgg atgaataatg 2640
tcatgaatgc tcaggctaaa aagagtcttg atcaggatcc agttgtacgt gctcaggaaa 2700
ttaaaacaaa aatcaaggaa ttgaacaaca catgtgaacc cgttgtaaca caaccgaaac 2760
caaaaattga atcacccaaa ctggaaagaa ctccaaatgg cccaaatatt gataaaaagg 2820
aagaagattt agaagacaaa aacaattttg gtgctgaacc tccacatcag aatggtgaat 2880
gttaccctaa tgagaaaaat tctgttaata tggacttgga ctagataacc ttaaattggc 2940
ctattccttc aattaataaa atatttttgc catagtatgt gactctacat aacatactga 3000
aactatttat attttctttt ttaaggatat ttagaaattt tgtgtattat atggaaaaag 3060
aaaaaaagct taagtctgta gtctttatga tcctaaaagg gaaaattgcc ttggtaactt 3120
tcagattcct gtggaattgt gaattcatac taagctttct gtgcagtctc accatttgca 3180
tcactgagga tgaaactgac ttttgtcttt tggagaaaaa aaactgtact gcttgttcaa 3240
gagggctgtg attaaaatct ttaagcattt gttcctgcca aggtagtttt cttgcatttt 3300
gctctccatt cagcatgtgt gtgggtgtgg atgtttataa acaagactaa gtctgacttc 3360
ataagggctt tctaaaacca tttctgtcca agagaaaatg acttttgct ttgatattaa 3420
aaattcaatg agtaaaacaa aagctagtca aatgtgttag cagcatgcag aacaaaaact 3480
ttaaactttc tctctcacta tacagtatat tgtcatgtga aagtgtggaa tggaagaaat 3540
gtcgatcctg ttgtaactga ttgtgaacac ttttatgagc tttaaaataa agttcatctt 3600
atggtgtcat ttctaaactg ttgattttgt cactaattta aaaaatgaga tgagggagaa 3660
tatgaattat tctagcagaa atgaagttag tgtccagttt ttctttttta ctgcttatgt 3720
tctctctttt ctaagtgaaa atgttttct cctgacagaa aaatagcata tgtttattac 3780
attaaagcat tttaaaaata ctataaagtg aataaaactt aaaatcttgc cacccagaag 3840
aaaacattgt taacacttcg ttatacatcc ttggagcctt ttacccctaa tgatgggggt 3900
atatttgtgt gagtgtctat gttatagtgc tgtaggctgt ttttaaaaac tctgtgccag 3960
ggaaattagt aaatacagtc aagtgttgta actgcataaa tgtagtgagt tcattataaa 4020
gacatactta aaaataccaa tcttgctatt ggtagattta ggtgtttctc atttttgctg 4080
ttctaaataa tgctgcaatg aatctatctg gttgtttgt aagcacaaaa ttgaagtagt 4140
gttggaggta ggggagaaga cacatgcact taggataggt gacaaccagc tcctcactag 4200
ggtgcaacag tttattcttt tttttttttg ggaaaagcgg gggt              4244
```

<210> 177
<211> 1469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2767012CB1

<400> 177
```
ggcggaactt tccagaacgc tcggtgagag gcggaggagc ggtaactacc ccggctgcgc 60
acagctcggc gctccttccc gctccctcac acaccggcct cagcccgcac cggcagtaga 120
agatggtgaa agaaacaact tactacgatg ttttggggggt caaacccaat gctactcagg 180
aagaattgaa aaaggcttat aggaaactgg ctttgaagta ccatcctgat aagaacccaa 240
atgaaggaga gaagtttaaa cagatttctc aagcttacga agttctctct gatgcaaaga 300
aaagggaatt atatgacaaa ggaggagaac aggcaattaa agagggtgga gcaggtggcg 360
```

```
gttttggctc ccccatggac atctttgata tgttttttgg aggaggagga aggatgcaga 420
gagaaaggag aggtaaaaat gttgtacatc agctctcagt aaccctagaa gacttatata 480
atggtgcaac aagaaaactg gctctgcaaa agaatgtgat ttgtgacaaa tgtgaaggta 540
gaggaggtaa gaaaggagca gtagagtgct gtcccaattg ccgaggtact ggaatgcaaa 600
taagaattca tcagatagga cctggaatgg ttcagcaaat tcagtctgtg tgcatggagt 660
gccagggcca tggggagcgg atcagtccta agatagatg taaaagctgc aacggaagga 720
agatagttcg agagaagaaa attttagaag ttcatattga caaaggcatg aaagatggcc 780
agaagataac attccatggt gaaggagacc aagaaccagg actggagcca ggcgatatta 840
tcattgtgtt agatcagaag gaccatgctg tttttactcg acgaggagaa gacctttca 900
tgtgtatgga catacagctc gttgaagcac tgtgtggctt ccagaagcca atatctactc 960
ttgacaaccg aaccatcgtc atcacctctc atccaggtca gattgtcaag catggagata 1020
tcaagtgtgt actaaatgaa ggcatgccaa tttatcgtag accatatgaa aagggtcgcc 1080
taatcatcga atttaaggta aacttcctg agaatggctt tctctctcct gataaactgt 1140
ctttgctgga aaaactccta cccgagagga aggaagtgga agagactgat gagatggacc 1200
aagtagaact ggtggacttt gatccaaatc aggaaagacg gcgccactac aatggagaag 1260
catatgagga tgatgaacat catcccagag gtggtgttca gtgtcagacc tcttaatggg 1320
ccagtgaata acactcactg ctggcattta atgtgcagta gtgaatgagt gaaggactgt 1380
aatcataata tgctcactac ttgctcttgt ttttgtttta ataaactata gtagtgtttt 1440
aaaaagttaa atgaagaata aacgcaaat                                      1469
```

<210> 178
<211> 397
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2767012CD1

<400> 178

```
Met Val Lys Glu Thr Thr Tyr Tyr Asp Val Leu Gly Val Lys Pro
1               5                   10                  15
Asn Ala Thr Gln Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala
            20                  25                  30
Leu Lys Tyr His Pro Asp Lys Asn Pro Asn Glu Gly Glu Lys Phe
            35                  40                  45
Lys Gln Ile Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys
            50                  55                  60
Arg Glu Leu Tyr Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly
65                  70                  75
Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met
            80                  85                  90
Phe Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys
            95                  100                 105
Asn Val Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn
            110                 115                 120
Gly Ala Thr Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp
            125                 130                 135
Lys Cys Glu Gly Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys
            140                 145                 150
Pro Asn Cys Arg Gly Thr Gly Met Gln Ile Arg Ile His Gln Ile
            155                 160                 165
Gly Pro Gly Met Val Gln Gln Ile Gln Ser Val Cys Met Glu Cys
            170                 175                 180
Gln Gly His Gly Glu Arg Ile Ser Pro Lys Asp Arg Cys Lys Ser
            185                 190                 195
```

181

```
Cys Asn Gly Arg Lys Ile Val Arg Glu Lys Lys Ile Leu Glu Val
                200                 205                 210
His Ile Asp Lys Gly Met Lys Asp Gly Gln Lys Ile Thr Phe His
                215                 220                 225
Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu Pro Gly Asp Ile Ile
                230                 235                 240
Ile Val Leu Asp Gln Lys Asp His Ala Val Phe Thr Arg Arg Gly
                245                 250                 255
Glu Asp Leu Phe Met Cys Met Asp Ile Gln Leu Val Glu Ala Leu
                260                 265                 270
Cys Gly Phe Gln Lys Pro Ile Ser Thr Leu Asp Asn Arg Thr Ile
                275                 280                 285
Val Ile Thr Ser His Pro Gly Gln Ile Val Lys His Gly Asp Ile
                290                 295                 300
Lys Cys Val Leu Asn Glu Gly Met Pro Ile Tyr Arg Arg Pro Tyr
                305                 310                 315
Glu Lys Gly Arg Leu Ile Ile Glu Phe Lys Val Asn Phe Pro Glu
                320                 325                 330
Asn Gly Phe Leu Ser Pro Asp Lys Leu Ser Leu Leu Glu Lys Leu
                335                 340                 345
Leu Pro Glu Arg Lys Glu Val Glu Glu Thr Asp Glu Met Asp Gln
                350                 355                 360
Val Glu Leu Val Asp Phe Asp Pro Asn Gln Glu Arg Arg Arg His
                365                 370                 375
Tyr Asn Gly Glu Ala Tyr Glu Asp Asp Glu His His Pro Arg Gly
                380                 385                 390
Gly Val Gln Cys Gln Thr Ser
                395
```

<210> 179
<211> 2019
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1651724CB1

<400> 179
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gtgccgtggg gctttgtcag tccctcctgt agccgccgcc gccgccgccc gccgcccctc 60
tgccagcagc tccggcgcca cctcgggccg gcgtctccgg cgtctgcgct tccccatggg 120
gctggcctgc cgcgcctggg cgctctgaga ttgtcactgc tgttccaagg gcacacgcag 180
agggatttgg aattcctgga gagttgcctt tgtgagaagc tggaaatatt tctttcaatt 240
ccatctctta gttttccata ggaacatcaa gaaatcatga caactttgg taatgaagag 300
tttgactgcc acttcctcga tgaaggtttt actgccaagg acattctgga ccagaaaatt 360
aatgaagttt cttcttctga tgataaggat gccttctatg tggcagacct gggagacatt 420
ctaaagaaac atctgaggtg gttaaaagct ctccctcgtg tcaccccctt ttatgcagtc 480
aaatgtaatg atagcaaagc catcgtgaag acccttgctg ctaccgggac aggatttgac 540
tgtgctagca agactgaaat acagttggtg cagagtctgg gggtgcctcc agagaggatt 600
atctatgcaa atccttgtaa acaagtatct caaattaagt atgctgctaa taatggagtc 660
cagatgatga cttttgatag tgaagttgag ttgatgaaag ttgccagagc acatcccaaa 720
gcaaagttgg ttttgcggat tgccactgat gattccaaag cagtctgtcg tctcagtgtg 780
aaattcggtg ccacgctcag aaccagcagg ctccttttgg aacgggcgaa agagctaaat 840
atcgatgttg ttggtgtcag cttccatgta ggaagcggct gtaccgatcc tgagaccttc 900
gtgcaggcaa tctctgatgc ccgctgtgtt tttgacatgg gggctgaggt tggtttcagc 960
atgtatctgc ttgatattgg cggtggcttt cctggatctg aggatgtgaa acttaaattt 1020
gaagagatca ccggcgtaat caacccagcg ttggacaaat actttccgtc agactctgga 1080
```

```
gtgagaatca tagctgagcc cggcagatac tatgttgcat cagctttcac gcttgcagtt 1140
aatatcattg ccaagaaaat tgtattaaag gaacagacgg gctctgatga cgaagatgag 1200
tcgagtgagc agacctttat gtattatgtg aatgatggcg tctatggatc atttaattgc 1260
atactctatg accacgcaca tgtaaagccc cttctgcaaa agagacctaa accagatgag 1320
aagtattatt catccagcat atggggacca acatgtgatg gcctcgatcg gattgttgag 1380
cgctgtgacc tgcctgaaat gcatgtgggt gattggatgc tctttgaaaa catgggcgct 1440
tacactgttg ctgctgcctc tacgttcaat ggcttccaga ggccgacgat ctactatgtg 1500
atgtcagggc ctgcgtggca actcatgcag caattccaga accccgactt cccacccgaa 1560
gtagaggaac aggatgccag caccctgcct gtgtcttgtg cctgggagag tgggatgaaa 1620
cgccacagag cagcctgtgc ttcggctagt attaatgtgt agatagcact ctggtagctg 1680
ttaactgcaa gtttagcttg aattaaggga tttgggggga ccatgtaact taattactgc 1740
tagttttgaa atgtctttgt aagagtaggg tcgccatgat gcagccatat ggaagactag 1800
gatatgggtc acacttatct gtgttcctat ggaaactatt tgaatatttg ttttatatgg 1860
atttttattc actcttcaga cacgctactc aagagtgccc ctcagctgct gaacaagcat 1920
ttgtagcttg tacaatggca gaatgggcca aaagcttagt gttgtgacct gtttttaaaa 1980
taaagtatct tgaaataatt aggcaaaaaa aaaaaaaaa                         2019
```

<210> 180
<211> 461
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1651724CD1

<400> 180

```
Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys His Phe Leu Asp
1               5                  10                  15
Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys Ile Asn Glu
            20                  25                  30
Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala Asp Leu
        35                  40                  45
Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu Pro
    50                  55                  60
Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
65                  70                  75
Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala
            80                  85                  90
Ser Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro
        95                  100                 105
Glu Arg Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile
            110                 115                 120
Lys Tyr Ala Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser
            125                 130                 135
Glu Val Glu Leu Met Lys Val Ala Arg Ala His Pro Lys Ala Lys
            140                 145                 150
Leu Val Leu Arg Ile Ala Thr Asp Asp Ser Lys Ala Val Cys Arg
            155                 160                 165
Leu Ser Val Lys Phe Gly Ala Thr Leu Arg Thr Ser Arg Leu Leu
            170                 175                 180
Leu Glu Arg Ala Lys Glu Leu Asn Ile Asp Val Val Gly Val Ser
            185                 190                 195
Phe His Val Gly Ser Gly Cys Thr Asp Pro Glu Thr Phe Val Gln
            200                 205                 210
Ala Ile Ser Asp Ala Arg Cys Val Phe Asp Met Gly Ala Glu Val
```

183

```
                215                  220                  225
Gly Phe Ser Met Tyr Leu Leu Asp Ile Gly Gly Gly Phe Pro Gly
                230                  235                  240
Ser Glu Asp Val Lys Leu Lys Phe Glu Glu Ile Thr Gly Val Ile
                245                  250                  255
Asn Pro Ala Leu Asp Lys Tyr Phe Pro Ser Asp Ser Gly Val Arg
                260                  265                  270
Ile Ile Ala Glu Pro Gly Arg Tyr Tyr Val Ala Ser Ala Phe Thr
                275                  280                  285
Leu Ala Val Asn Ile Ile Ala Lys Lys Ile Val Leu Lys Glu Gln
                290                  295                  300
Thr Gly Ser Asp Asp Glu Asp Glu Ser Ser Glu Gln Thr Phe Met
                305                  310                  315
Tyr Tyr Val Asn Asp Gly Val Tyr Gly Ser Phe Asn Cys Ile Leu
                320                  325                  330
Tyr Asp His Ala His Val Lys Pro Leu Leu Gln Lys Arg Pro Lys
                335                  340                  345
Pro Asp Glu Lys Tyr Tyr Ser Ser Ser Ile Trp Gly Pro Thr Cys
                350                  355                  360
Asp Gly Leu Asp Arg Ile Val Glu Arg Cys Asp Leu Pro Glu Met
                365                  370                  375
His Val Gly Asp Trp Met Leu Phe Glu Asn Met Gly Ala Tyr Thr
                380                  385                  390
Val Ala Ala Ala Ser Thr Phe Asn Gly Phe Gln Arg Pro Thr Ile
                395                  400                  405
Tyr Tyr Val Met Ser Gly Pro Ala Trp Gln Leu Met Gln Gln Phe
                410                  415                  420
Gln Asn Pro Asp Phe Pro Pro Glu Val Glu Glu Gln Asp Ala Ser
                425                  430                  435
Thr Leu Pro Val Ser Cys Ala Trp Glu Ser Gly Met Lys Arg His
                440                  445                  450
Arg Ala Ala Cys Ala Ser Ala Ser Ile Asn Val
                455                  460
```

<210> 181
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 206397.1

<400> 181
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ccccacccgg ccagaacctt taaatttaaa attgtacagt gtacttcctg ccaagaagcg 60
taggaggaag aaggaagtaa tgttttccca gttttcggtt aagaacttgc tttgtattaa 120
aatagtcctt caagtctaca gccataccac cctgaacgcg cccaatctcg tctaaaatag 180
tccttcaaat atgtatctct tatagccttc agttatccca acaaaattat ctaaagattt 240
gtttatctat ttattattat ttttt                                      265
```

<210> 182
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

184

<223> Incyte ID No: 461707.40

<400> 182
```
cccaaacctg ccaccgacgg ccacttccgt ttccccgata gtatttgggg atctcgaagc 60
gatacttccg gctcccccca ggtccccaag ctttactttt gtggggcacg acgagaaagt 120
ccgcagcccc aaacattccc agaggtccac ttgggccagt ggtactttat cgcaggggca 180
gctcccacca aggaggagtt ggcaactttt gaccctgtgg acaacattgt cttcaatatg 240
gctgctggct ctgccccgat gcagctccac cttcgtgcta ccatccgcat gaaagatggg 300
ctctgtgtgc cccggaaatg gatctaccac ctgactgaag ggagcacaga tctcagaact 360
gaaggccgcc ctgacatgaa gactgagctc ttttccagct catgcccagg tggaatcatg 420
ctgaatgaga caggccaggg ttaccagcgc tttctcctct acaatcgctc accacatcct 480
cccgaaaagt gtgtggagga attcaagtcc ctgacttcct gcctggactc caaagccttc 540
ttattgactc ctaggaatca agaggcctgt gagctgtcca ataactgacc tgtaacttca 600
tctaagtccc cagatgggta caatgggagc tgagttgttg gagggagaag ctggagactt 660
ccagctccag ctcccactca agataataaa gataattttt caatcctcaa aaaaa    715
```

<210> 183
<211> 962
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706645CB1

<400> 183
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cgaggcaatc ctggctccca gcaagtcccc ggggctgctt ggtcaatgca gccctgtgtg 60
caggcctggc agccctgcca cccccgccct cggctcccat tggctgccac ggcctgcagt 120
gggctgcacc agggttcatc catcctccct gggcagaggg aataagaggc tgcctctgcc 180
caccagtcct gccgcccagg acccgcagca gagacgacgc ctgcagcaag agaccaggga 240
aggggtgaga caaggaagag gatgtctgag ctggagaagg ccatggtggc cctcatcgac 300
gttttccacc aatattctgg aagggaggga gacaagcaca agctgaagaa atccgaactc 360
aaggagctca tcaacaatga gctttcccat ttcttagagg aaatcaaaga gcaggaggtt 420
gtggacaaag tcatggaaac actggacaat gatggagacg gcgaatgtga cttccaggaa 480
ttcatggcct ttgttgccat ggttactact gcctgccacg agttctttga acatgagtga 540
gattagaaag cagccaaacc tttcctgtaa cagagatggt catgcaagaa agcagacagc 600
aagggcttgc agcctagtag gagctgagct ttccagccgt gttgtagcta attaggaagc 660
ttgatttgct ttgtgattga aaaattgaaa acctctttcc aaaggctgtt ttaacggcct 720
gcatcattct ttctgctata ttaggcctgt gtgtaagctg actggcccca gggactcttg 780
ttaacagtaa cttaggagtc aggtctcagt gataaagcgt gcaccgtgca gcccgccatg 840
gccgtgtaga ccctaacccg gagggaaccc tgactacaga aattaccccg gggcaccctt 900
aaaacttcca ctacctttaa aaaacaaagc cttatccagc attatttgaa aacaaaaaaa 960
aa                                                              962
```

<210> 184
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706645CD1

<400> 184
```
Met Ser Glu Leu Glu Lys Ala Met Val Ala Leu Ile Asp Val Phe
 1           5                  10                  15
```

185

```
His Gln Tyr Ser Gly Arg Glu Gly Asp Lys His Lys Leu Lys Lys
             20                      25                      30
Ser Glu Leu Lys Glu Leu Ile Asn Asn Glu Leu Ser His Phe Leu
             35                      40                      45
Glu Glu Ile Lys Glu Gln Glu Val Val Asp Lys Val Met Glu Thr
             50                      55                      60
Leu Asp Asn Asp Gly Asp Gly Glu Cys Asp Phe Gln Glu Phe Met
             65                      70                      75
Ala Phe Val Ala Met Val Thr Thr Ala Cys His Glu Phe Phe Glu
             80                      85                      90
His Glu
```

```
<210> 185
<211> 2578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474372.7

<220>
<221> unsure
<222> 2154
<223> a, t, c, g, or other

<400> 185
cactagcctc ctgccccgcg gcgctgccgc acgagcccca cgagccgctc accccgccgt 60
tctcagcgct gcccgacccc gctggcgcgc cctcccgccg ccagtcccgg cagcgccctc 120
agttgtcctc cgactcgccc tcggccttcc gcgccagccg cagccacagc cgcaacgcca 180
cccgcagcca cagccacagc cacagcccca ggcatagcct tcggcacagc cccgggctcc 240
ggctcctgcg gcagctcctc tgggcaccgt ccctgcgccg acatcctgga ggttgggatg 300
ctcttgtcca aaatcaactc gcttgcccac ctgcgcgccg cgccctgcaa cgacctgcac 360
gccaccaagc tggcgcccgg caaggagaag gagccctgg agtcgcagta ccaggtgggc 420
ccgctactgg gcagcggcgg cttcggctcg gtctactcag gcatccgcgt ctccgacaac 480
ttgccggtgg ccatcaaaca cgtggagaag gaccggattt ccgactgggg agagctgcct 540
aatggcactc gagtgcccat ggaagtggtc ctgctgaaga aggtgagctc gggtttctcc 600
ggcgtcatta ggctcctgga ctggttcgag aggcccgaca gtttcgtcct gatcctggag 660
aggcccgagc cggtgcaaga tctcttcgac ttcatcacgg aaaggggagc cctgcaagag 720
gagctggccc gcagcttctt ctggcaggtg ctggaggccg tgcggcactg ccacaactgc 780
gggggtgctcc accgcgacat caaggacgaa aacatcctta tcgacctcaa tcgcggcgag 840
ctcaagctca tcgacttcgg gtcggggggcg ctgctcaagg acaccgtcta cacggacttc 900
gatgggaccc gagtgtatag ccctccagag tggatccgct accatcgcta ccatggcagg 960
tcggcggcag tctggtccct ggggatcctg ctgtatgata tggtgtgtgg agatattcct 1020
ttcgagcatg acgaagagat catcaggggc caggttttct tcaggcagag ggtctcttca 1080
gaatgtcagc atctcattag atggtgcttg ccctgagac catcagatag ccaaccttc 1140
gaagaaatcc agaaccatcc atggatgcaa gatgttctcc tgccccagga aactgctgag 1200
atccacctcc acagcctgtc gccggggccc agcaaatagc agcctttctg gcaggtcctc 1260
ccctctcttg tcagatgccc gaggaggggg aagcttctgt ctccagcttc ccgagtacca 1320
gtgacacgtc tcgccaagca ggacagtgct tgatacagga acaacattta caactcattc 1380
cagatcccag gccctggag gctgcctccc aacagtgggg aagagtgact ctccaggggt 1440
cctaggcctc aactcctccc atagatactc tcttcttctc ataggtgtcc agcattgctg 1500
gactctgaaa tatcccgggg gtggggggtg ggggtgggtc agaaccctgc catggaactg 1560
tttccttcat catgagttct gctgaatgcc gcgatgggtc aggtaggggg gaaacaggtt 1620
gggatgggat aggactagca ccattttaag tccctgtcac ctcttccgac tctttctgag 1680
tgccttctgt ggggactccg gctgtgctgg gagaaatact tgaacttgcc tcttttacct 1740
```

186

```
gctgcttctc caaaaatctg cctgggtttt gttccctatt tttctctcct gtcctccctc 1800
accccctcct tcatatgaaa ggtgccatgg aagaggctac agggccaaac gctgagccac 1860
ctgccctttt ttctgcctcc tttagtaaaa ctccgagtga actggtcttc ctttttggtt 1920
tttacttaac tgtttcaaag ccaagacctc acacacacaa aaaatgcaca aacaatgcaa 1980
tcaacagaaa agctgtaaat gtgtgtacag ttggcatggt agtatacaaa aagattgtag 2040
tggatctaat ttttaagaaa ttttgccttt aagttatttt acctgttttt gtttcttgtt 2100
ttgaaagatg cgcattctaa cctggaggtc aatgttatgt atttatttaa ttanttattt 2160
ggttcccttc ctattccaag cttccatagc tgctgcccta gttttctttc ctcctttcct 2220
cctctgactt gggggacctt tggggggagg ctgcgacgct tgctctgttt gtggggtgac 2280
gggactcagg cgggacagtg ctgcagctcc ctggcttctg tggggcccct cacctactta 2340
cccaggtggg tcccggctct gtgggtgatg gggaggggca ttgctgactg tgtatatagg 2400
ataattatga aaagcagttc tggatggtgt gccttccaga tcctctctgg ggctgtgttt 2460
tgagcagcag gtagcctgct ggtttttatct gagtgaaata ctgtacaggg gaataaaaga 2520
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<210> 186
<211> 2196
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3592543CB1

<400> 186
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gaactgcaaa tcttattttc ttttcacctt ctctctaact gcccagagct agcgcctgtg 180
gctcccgggc tggtgtttcg ggagtgtcca gagagcctgg tctccagccg cccccgggag 240
gagagccctg ctgcccaggc gctgttgaca gcggcggaaa gcagcggtac ccacgcgccc 300
gccgggggaa gtcggcgagc ggctgcagca gcaaagaact ttcccggctg ggaggaccgg 360
agacaagtgg cagagtcccg gagcgaactt ttgcaagcct ttcctgcgtc ttaggcttct 420
ccacggcggt aaagaccaga aggcggcgga gagccacgca agagaagaag gacgtgcgct 480
cagcttcgct cgcaccggtt gttgaacttg ggcgagcgcg agccgcggct gccgggcgcc 540
ccctccccct agcagcggag gaggggacaa gtcgtcggag tccgggcggc caagacccgc 600
cgccggccgg ccactgcagg gtccgcactg atccgctccg cggggagagc cgctgctctg 660
ggaagtgagt tcgcctgcgg actccgagga accgctgcgc ccgaagagcg ctcagtgagt 720
gaccgcgact tttcaaagcc gggtagcgcg cgcgagtcga caagtaagag tgcgggaggc 780
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gatgccctca acgcctcgtt cctcccgtcc gagagcggac cttatggcta cagtaacccc 1080
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cacctccgcg ccaagaactc ggacctcctc acctcgcccg acgtggggct gctcaagctg 1200
gcgtcgcccg agctggagcg cctgataatc cagtccagca acgggcacat caccaccacg 1260
ccgacccca cccagttcct gtgccccaag aacgtgacag atgagcagga gggcttcgcc 1320
gagggcttcg tgcgcgccct ggccgaactg cacagccaga acacgctgcc cagcgtcacg 1380
ccggcggcgc agcggtgcaa cggggcaggc atggtggctc ccgcggtagc ctcggtggca 1440
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aacctcagca acttcaaccc aggcgcgctg agcagcggcg gcggggcgcc ctcctacggc 1560
gcggccggcc tggccttttcc cgcgcaaccc cagcagcagc agcagccgcc gcaccacctg 1620
ccccagcaga tgcccgtgca gcacccgcgg ctgcaggccc tgaaggagga gcctcagaca 1680
gtgcccgaga tgcccggcga gacaccgccc ctgtccccca tcgacatgga gtcccaggag 1740
cggatcaagg cggagaggaa gcgcatgagg aaccgcatcg ctgcctccaa gtgccgaaaa 1800
aggaagctgg agagaatcgc ccggctggag gaaaaagtga aaaccttgaa agctcagaac 1860
```

```
tcggagctgg cgtccacggc caacatgctc agggaacagg tggcacagct taaacagaaa 1920
gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cgcagcagtt gcaaacattt 1980
tgaagagaga ccgtcggggg ctgaggggca acgaagaaaa aaaataacac agagagacag 2040
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agggtatcca agttggactg ggttgcgtcc tgacggcgcc cccagtgtgc acgagtggga 2160
aggacttggc gcgccctccc ttggcgtgga gccagg                            2196
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<210> 187
<211> 331
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3592543CD1

<400> 187

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Met Thr Ala Lys Met Glu Thr Thr Phe Tyr Asp Asp Ala Leu Asn
  1               5                  10                  15
Ala Ser Phe Leu Pro Ser Glu Ser Gly Pro Tyr Gly Tyr Ser Asn
                 20                  25                  30
Pro Lys Ile Leu Lys Gln Ser Met Thr Leu Asn Leu Ala Asp Pro
                 35                  40                  45
Val Gly Ser Leu Lys Pro His Leu Arg Ala Lys Asn Ser Asp Leu
                 50                  55                  60
Leu Thr Ser Pro Asp Val Gly Leu Leu Lys Leu Ala Ser Pro Glu
                 65                  70                  75
Leu Glu Arg Leu Ile Ile Gln Ser Ser Asn Gly His Ile Thr Thr
                 80                  85                  90
Thr Pro Thr Pro Thr Gln Phe Leu Cys Pro Lys Asn Val Thr Asp
                 95                 100                 105
Glu Gln Glu Gly Phe Ala Glu Gly Phe Val Arg Ala Leu Ala Glu
                110                 115                 120
Leu His Ser Gln Asn Thr Leu Pro Ser Val Thr Pro Ala Ala Gln
                125                 130                 135
Arg Cys Asn Gly Ala Gly Met Val Ala Pro Ala Val Ala Ser Val
                140                 145                 150
Ala Gly Gly Ser Gly Ser Val Gly Phe Ser Ala Ser Leu His Ser
                155                 160                 165
Glu Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro Gly Ala
                170                 175                 180
Leu Ser Ser Gly Gly Gly Ala Pro Ser Tyr Gly Ala Ala Gly Leu
                185                 190                 195
Ala Phe Pro Ala Gln Pro Gln Gln Gln Gln Pro Pro His His
                200                 205                 210
Leu Pro Gln Gln Met Pro Val Gln His Pro Arg Leu Gln Ala Leu
                215                 220                 225
Lys Glu Glu Pro Gln Thr Val Pro Glu Met Pro Gly Glu Thr Pro
                230                 235                 240
Pro Leu Ser Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala
                245                 250                 255
Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg
                260                 265                 270
Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys Val Lys
                275                 280                 285
Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met
```

188

```
                    290                  295                  300
Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His
                    305                  310                  315
Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln Leu Gln Thr
                    320                  325                  330
Phe
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<210> 188
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.12c

<220>
<221> unsure
<222> 217-266
<223> a, t, c, g, or other

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<400> 188
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aaaataattt aagcacaata ttaataacaa agcaactttt tttcaaggaa aactagtagg 120
tcatcttgcc caagattttt ccaaaggtat taaatatatt ttcaataaca gtacatacaa 180
atacacatac acaaatatac cacacagaca catgtgnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnntaca gctcaagtat tttttggtg tgcattctag 300
ctaatccaca tagctaaagt gaaaaaacac tgaaaagatc aatgcctgag taaccttaaa 360
tttgaacaaa ctatgcattg gatgtgaatt tttggaggca tgctaagatt tcccttctca 420
atttcattag ctactaccca gtgttctgtg gttcttatcc ttaaaaaaat caaagtgtgc 480
ctttcagatc tgctcacggt gtggtgatga ttattatggt ggcgtcaatt tgggaacact 540
tgccctctct tgctcctact gcaccttatg gatgggaaag ggaatgattt taaaggtaaa 600
gcactcaggc cctgattaca tctggcttat tctttgcttc aaggcaagga tctctctctc 660
gatttcacag gggaggtcgg cattgacttg atcctccaga tacttctcga tgtcttccac 720
ctccttctcc cagaattcct tggagatgct gaaaagctcc atcatgttga tgtgccccag 780
gcctttcagg ttcagggcat cctccttggg gatgtagcct atgggcgtga gcttggtgct 840
ggcttttcca tcgatccggt tgaacatcca ctccagcacc ctggagttct ctccaaagcc 900
tggccagagg aatttgcctt ccttgtcctt ccggaaccag ttgacatgga agatcttggg 960
cagtttggct gctgggtgct gggccatgct aagccagtgg gccaggtatt tgccgaagtt 1020
gtagccaaag aagggccgca tggcaaaggg gtcatgcatg atgattttgc ctttatgttc 1080
tgcagccgct gtggcctctg atctcatggc cgcccccaca aagactccat gttgccagct 1140
gagagcttca tagactagag ggacaccttt agcaggaaaa aaaaagagaa atgttcatca 1200
gaggctttga aattcagact ccacaaccag tggtgttatt cacaacacgg aaagacacgg 1260
caagacaata actttgtaat cgagctagtt ttgcgttcac caagctaaat tgcagaaaac 1320
tgctaactca aagttacatg actgaggcca caaagtaaaa agtaaaattt gatcaagcta 1380
caatagatca gggattcaga aaggttccag gtgaccagaa gggttgg              1427
```

<210> 189
<211> 2666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.13

PA-0035 US

<220>
<221> unsure
<222> 2365, 2367-2399
<223> a, t, c, g, or other

<400> 189
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cgagatcatc caaagagaag aaaggtgacc tcacattcgt gccccttagc agcactctgc 120
agaaatgcct cctcagctgc aaaacggcct gaacctctcg gccaaagttg tccagggaag 180
cctggacagc ctaccccagg cagtgaggga gtttctcgag aataacgctg agctgtgtca 240
gcctgatcac atccacatct gtgacggctc tgaggaggag aatgggcggc ttctgggcca 300
gatggaggaa gagggcatcc tcaggcggct gaagaagtat gacaactgct ggttggctct 360
cactgacccc agggatgtgg ccaggatcga aagcaagacg gttatcgtca cccaagagca 420
aagagacaca gtgcccatcc ccaaaacagg cctcagccag ctcggtcgct ggatgtcaga 480
ggaggatttt gagaaagcgt tcaatgccag gttcccaggg tgcatgaaag gtcgcaccat 540
gtacgtcatc ccattcagca tggggccgct gggctcacct ctgtcgaaga tcggcatcga 600
gctgacggat tcgccctacg tggtggccag catgcggatc atgacgcgga tgggcacgcc 660
cgtcctggaa gcactgggcg atggggagtt tgtcaaatgc ctccattctg tggggtgccc 720
tctgcctta caaaagcctt tggtcaacaa ctggccctgc aacccggagc tgacgctcat 780
cgcccacctg cctgaccgca gagagatcat ctcctttggc agtgggtacg gcgggaactc 840
gctgctcggg aagaagtgct ttgctctcag gatggccagc cggctggcca aggaggaagg 900
gtggctggca gagcacatgc tgattctggg tataaccaac cctgagggtg agaagaagta 960
cctggcggcc gcatttccca gcgcctgcgg gaagaccaac ctggccatga tgaaccccag 1020
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acaaggtcat ttaagggcca tcaacccaga aaatggcttt ttcggtgtcg ctcctgggac 1140
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ctgggagtct ccggaaggtg ttcccattga aggcattatc tttggaggcc gtagacctgc 1440
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catctccaag gaattctggg agaaggaggt ggaagacatc gagaagtatc tggaggatca 1920
agtcaatgcc gacctcccct gtgaaatcga gagagagatc cttgccttga agcaaagaat 1980
aagccagatg taatcagggc ctgagaataa gccagatgta atcagggcct gagtgcttta 2040
cctttaaaat cattcccttt cccatccata aggtgcagta ggagcaagag agggcaagtg 2100
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aagggaaatc ttagcatgcc tccaaaaatt cacatccaat gcatagtttg ttcaaattta 2280
aggttactca ggcattgatc ttttcagtgt tttttcactt tagctatgtg gattagctag 2340
aatgcacacc aaaaaaatac ttgancnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 2400
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tactgttatt gaaaatatat ttaatacctt tggaaaaatc ttgggcaaga tgacctacta 2520
gttttccttg aaaaaaagtt gctttgttat taatattgtg cttaaattat ttttatacac 2580
cattgttcct tacctttaca taattgcaat atttccccct tactacttct tggaaaaaaa 2640
ttacaaaatg aagtttttata gaaaag 2666

<210> 190
<211> 2358
<212> DNA
<213> Homo sapiens

190

<220>
<221> misc_feature
<223> Incyte ID No: 245259.16

<400> 190
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cgatccccgg cctggggtga gcagagcgac caccgcccgg gagcagcgcg gcgagacgca 180
cggtgcgccc tatgcccccg cgcccccacc gcccccgccg cggcagccga agcgcagcga 240
gagaacgcgc caccgcgggg cccgggtgca gctagcgacc ctctcgccac ctgcgcgcag 300
cccgaggtga gcagtgagcg gcgagcggga gggcagcgag gcgttcgcgg gcccctcct 360
gctgcccggg cccggcccgc tcatggcggc catccgcaag aagctggtgg tggtgggcga 420
cggcgcgtgt ggcaagacgt gcctgctgat cgtgttcagt aaggacgagt tccccgaggt 480
gtacgtgccc accgtcttcg agaactatgt ggccgacatt gaggtggacg gcaagcaggt 540
ggagctggcg ctgtgggaca cggcgggcca ggaggactac gaccgcctgc ggccgctctc 600
ctacccggac accgacgtca ttctcatgtg cttctcggtg acagcccgg actcgctgga 660
gaacatcccc gagaagtggg tccccgaggt gaagcacttc tgtcccaatg tgcccatcat 720
cctggtggcc aacaaaaaag acctgcgcag cgacgagcat gtccgcacag agctggcccg 780
catgaagcag gaacccgtgc gcacggatga cggccgcgcc atggccgtgc gcatccaagc 840
ctacgactac ctcgagtgct ctgccaagac caaggaaggc gtgcgcgagg tcttcgagac 900
ggccacgcgc gccgcgctgc agaagcgcta cggctcccag aacggctgca tcaactgctg 960
caaggtgcta tgagggccgc gcccgtcgcg cctgcccctg ccggcacggc tcccctcct 1020
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ccaagcatga acaggacttg accatctttc caacccctgg ggaagacatt tgcaactgac 1620
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tttgtgcctg tcctagaagt gaaaattgtt cagtccaaga aactgatgtt atttgattta 1800
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aaatttgct ttgtttcctt gaagaatgtg gcaacactgt tttgtgattt tatttgtgca 2040
ggtcatgcac acagttttga taaagggcag taacaagtat tgggggcctat tttttttttt 2100
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attgttgtct tgtttttttat tttttaaata aactgacaaa tgacaaatg gtgagcttat 2280
gatgtttaca taaaagttct ataagctgtg tatacagttt tttatgtaaa atattaaaag 2340
actatgatga tgacattt                                                2358
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<210> 191
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 522433CB1

<400> 191

191

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gccgcaacct gcacagccat gcccgggcaa gaactcagga cgctgaatgg ctctcagatg   60
ctcctggtgt tgctggtgct ctcgtggctg ccgcatgggg gcgccctgtc tctggccgag  120
gcgagccgcg caagtttccc gggaccctca gagttgcaca ccgaagactc cagattccga  180
gagttgcgga aacgctacga ggacctgcta accaggctgc gggccaacca gagctgggaa  240
gattcgaaca ccgacctcgt cccggcccct gcagtccgga tactcacgcc agaagtgcgg  300
ctgggatccg gcggccacct gcacctgcgt atctctcggg ccgcccttcc cgagggggctc  360
cccgaggcct cccgccttca ccgggctctg ttccggctgt ccccgacggc gtcaaggtcg  420
tgggacgtga cacgacctct gcggcgtcag ctcagccttg caagaccccca ggcgccccgcg  480
ctgcacctgc gactgtcgcc gccgccgtcg cagtcggacc aactgctggc agaatcttcg  540
tccgcacggc cccagctgga gttgcacttg cggccgcaag ccgccagggg gcgccgcaga  600
gcgcgtgcgc gcaacgggga ccactgtccg ctcgggcccg ggcgttgctg ccgtctgcac  660
acggtccgcg cgtcgctgga agacctgggc tgggccgatt gggtgctgtc gccacgggag  720
gtgcaagtga ccatgtgcat cggcgcgtgc ccgagccagt tccgggcggc aaacatgcac  780
gcgcagatca agacgagcct gcaccgcctg aagcccgaca cggtgccagc gccctgctgc  840
gtgcccgcca gctacaatcc catggtgctc attcaaaaga ccgacaccgg ggtgtcgctc  900
cagacctatg atgacttgtt agccaaagac tgccactgca tatgagcagt cctggtcctt  960
ccactgtgca cctgcgcggg ggaggcgacc tcagttgtcc tgccctgtgg aatgggctca 1020
aggttcctga dacacccgat tcctgcccaa acagctgtat ttatataagt ctgttatta 1080
ttattaattt attggggtga ccttcttggg gactcggggg ctggtctgat ggaactgtgt 1140
atttatttaa aactctggtg ataaaaataa agctgtctga actgttaaaa aaaaaaaaa 1200
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gcttgcactg acc                                                    1273
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`<210> 192`
`<211> 308`
`<212> PRT`
`<213> Homo sapiens`

`<220>`
`<221> misc_feature`
`<223> Incyte ID No: 522433CD1`

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<400> 192
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                 20                  25                  30
Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
                 35                  40                  45
Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr
                 50                  55                  60
Glu Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp
                 65                  70                  75
Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
                 80                  85                  90
Pro Glu Val Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile
                 95                 100                 105
Ser Arg Ala Ala Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu
                110                 115                 120
His Arg Ala Leu Phe Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp
                125                 130                 135
Asp Val Thr Arg Pro Leu Arg Arg Gln Leu Ser Leu Ala Arg Pro
                140                 145                 150
Gln Ala Pro Ala Leu His Leu Arg Leu Ser Pro Pro Ser Gln
                155                 160                 165
Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala Arg Pro Gln Leu
```

192

```
                  170                   175                   180
Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg Arg Arg Ala
                  185                   190                   195
Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly Arg Cys
                  200                   205                   210
Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly Trp
                  215                   220                   225
Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
                  230                   235                   240
Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala
                  245                   250                   255
Gln Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro
                  260                   265                   270
Ala Pro Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile
                  275                   280                   285
Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
                  290                   295                   300
Leu Ala Lys Asp Cys His Cys Ile
                  305
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<210> 193
<211> 372
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1040667.43

<220>
<221> unsure
<222> 48
<223> a, t, c, g, or other

<400> 193
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cttgtaccca atttctggga ttctggaagg cctcgagccg ctcgagccga attcggctcg 180
agttctcaca taacagtaga aaaccaaaat ttgttgtcat ctcttcaaag aatcgagaat 240
tgcgtacaaa aaaaacctta cataattaag aatgaataca tttacaggcg taaatgcaaa 300
ccgattccaa ctcaaagcaa gtaacagccc acggtgttct ggccaaagtc atcagctaag 360
aaaggaaact gg                                                     372
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<210> 194
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2048551CB1

<400> 194
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aatgtacctc ctgcaagaag tgctgctgct cttgctgccc cgtgggctgt gccaagtgtg 180
cccagggctg tgtctgcaaa ggctcatcag agaagtgccg ctgctgtgcc tgatgttggg 240
```

193

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agagccctgc tcccagacat aaatagagca accagtacta acctggattt ttttttttaac 300
taccctgacc ggtttgctac attctttttt ctattcaata tgtgaaagac aataaaacac 360
gtttgacttg aaaaaaggca taacattacc tggaagggat ttcccaaaaa tatgaaaacc 420
tcgggggcgg accccccctag tctattcagc ccaccggata tttactccgc cgatgaaaac 480
cgggccaaaa aactttctca aaactagggc ccggagagac cttgccgtct atcttggccg 540
aatgcttggc atccagcc                                                558
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<210> 195
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2048551CD1

<400> 195
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Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
               20                  25                  30
Lys Cys Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
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Gln Gly Cys Val Cys Lys Gly Ser Ser Glu Lys Cys Arg Cys Cys
               50                  55                  60
Ala
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<210> 196
<211> 3033
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1969731CB1

<400> 196
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gcagggacat gtctcgggag atgcaggatg tagacctcgc tgaggtgaag cctttggtgg 180
agaaaggga gaccatcacc ggcctcctgc aagagtttga tgtccaggag caggacatcg 240
agactttaca tggctctgtt cacgtcacgc tgtgtgggac tcccaaggga aaccggcctg 300
tcatcctcac ctaccatgac atcggcatga accacaaaac ctgctacaac cccctcttca 360
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gccagcagga cggcgcagcc tccttccccg cagggtacat gtacccctcc atggatcagc 480
tggctgaaat gcttcctgga gtccttcaac agtttgggct gaaaagcatt attggcatgg 540
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194

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gcccagctgc cgccccggga ctctgatctc tgtagtggcc ccctcctccc cggcccccttt 1380
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<210> 197
<211> 394
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1969731CD1

<400> 197
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Asp Val Gln Glu Gln Asp Ile Glu Thr Leu His Gly Ser Val His
                35                  40                  45
Val Thr Leu Cys Gly Thr Pro Lys Gly Asn Arg Pro Val Ile Leu
                50                  55                  60
Thr Tyr His Asp Ile Gly Met Asn His Lys Thr Cys Tyr Asn Pro
                65                  70                  75
Leu Phe Asn Tyr Glu Asp Met Gln Glu Ile Thr Gln His Phe Ala
                80                  85                  90
Val Cys His Val Asp Ala Pro Gly Gln Gln Asp Gly Ala Ala Ser
```

```
                     95                      100                     105
Phe Pro Ala Gly Tyr Met Tyr Pro Ser Met Asp Gln Leu Ala Glu
                    110                      115                     120
Met Leu Pro Gly Val Leu Gln Gln Phe Gly Leu Lys Ser Ile Ile
                    125                      130                     135
Gly Met Gly Thr Gly Ala Gly Ala Tyr Ile Leu Thr Arg Phe Ala
                    140                      145                     150
Leu Asn Asn Pro Glu Met Val Glu Gly Leu Val Leu Ile Asn Val
                    155                      160                     165
Asn Pro Cys Ala Glu Gly Trp Met Asp Trp Ala Ala Ser Lys Ile
                    170                      175                     180
Ser Gly Trp Thr Gln Ala Leu Pro Asp Met Val Val Ser His Leu
                    185                      190                     195
Phe Gly Lys Glu Glu Met Gln Ser Asn Val Glu Val Val His Thr
                    200                      205                     210
Tyr Arg Gln His Ile Val Asn Asp Met Asn Pro Gly Asn Leu His
                    215                      220                     225
Leu Phe Ile Asn Ala Tyr Asn Ser Arg Arg Asp Leu Glu Ile Glu
                    230                      235                     240
Arg Pro Met Pro Gly Thr His Thr Val Thr Leu Gln Cys Pro Ala
                    245                      250                     255
Leu Leu Val Val Gly Asp Ser Ser Pro Ala Val Asp Ala Val Val
                    260                      265                     270
Glu Cys Asn Ser Lys Leu Asp Pro Thr Lys Thr Thr Leu Leu Lys
                    275                      280                     285
Met Ala Asp Cys Gly Gly Leu Pro Gln Ile Ser Gln Pro Ala Lys
                    290                      295                     300
Leu Ala Glu Ala Phe Lys Tyr Phe Val Gln Gly Met Gly Tyr Met
                    305                      310                     315
Pro Ser Ala Ser Met Thr Arg Leu Met Arg Ser Arg Thr Ala Ser
                    320                      325                     330
Gly Ser Ser Val Thr Ser Leu Asp Gly Thr Arg Ser Arg Ser His
                    335                      340                     345
Thr Ser Glu Gly Thr Arg Ser Arg Ser His Thr Ser Glu Gly Thr
                    350                      355                     360
Arg Ser Arg Ser His Thr Ser Glu Gly Ala His Leu Asp Ile Thr
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Glu Val Ser Cys
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<210> 198
<211> 4848
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> unsure
<222> 4793, 4798, 4806, 4809-4810, 4815-4816, 4824-4825, 4828, 4830,
4832-4833, 4842-4843
<223> a, t, c, g, or other

<400> 198
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gtcttttcct tttttattaa aattattttt cctgcctgtt gttggatttg gggaaatttt 180
ttgtttgttt tttatgattt gtattgactg agagaaaccc actgaagacg tctgcgtgag 240
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aacagcgact tcaactactc ctaccccacc aagcaagctg ctctgaaaag ccattatgca 480
gatgtagatc ctgaaaacca gaactttta cttgaatcga atttggggaa gaagaagtat 540
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197

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<210> 199
<211> 3928
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2120743CB1

<400> 199
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tcactaactt gccatttttt gtatgctgta tttttatttg tggaaaatac cttgctactt 2580
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cagttgtcta tgctctgcaa tggtcaatga tgaattacta atgccttatt ttctaggcat 2820
ataataatag tttagagaat gtagaccaga taaatttgtt tactgtttta agaaaactac 2880
cagtttactt acagaagatt ctttttttcca aacagtaggt ttcatccaag accatttgaa 2940
gaactgcaaa ctctttctct tagaaaagaa agagggcagc ctaaaataaa cgcaaaattt 3000
gcttatactc catcacattc agatgtcttg gttgtgactt attaccagtg tggcagagaa 3060
cccaagttac attttagatc aaaatattct ttatgtaggt attgttaaaa ggctagagcc 3120
tacaagttgc tcttccatgc gttggtcagg gggccctgaa aacactggta atattaagag 3180
tctttctcag ggtaacttaa tgtttttctta atgaacagtg tttccagcta caaattcttc 3240
caataaattg tcttcctttt tgaaaagtac tctcatagaa gaaatttagc aatttctcgt 3300
tgactgactc agtctatttt aagtattcag aaaagatttt gatccccatt gagttaatgc 3360
tctgccttga aaattatttt tctgatcctt gttagtgata acatttttttt tctactgaag 3420
gtcagaggat aggaaacaag tatttctctt ctggtataca tgtaatgtat tctgtaaaaa 3480
agtattcata ttggcaattt tagttaggca taatattgtg gttgtaattt ttaaaactta 3540
gtgttttgtc tgattaaagc aggcactgat cagggtatct cctaagaggt aattcacttc 3600
ttattccttt ccaataatta ttacattcta aattttcatc tatgagaaat aacaaacaag 3660
aagggaatag aattaaattg gggtataatc taatcttcat tgtttaaatg gtttgccttc 3720
tcaccattga agccattttt ttatagcctc agaaagagga aataatgcct ccaccatttt 3780
ctacctggtg acttgaaaat tgaactttta agttaggaag aagttagagt cagggaactt 3840
gtataccact atctatgcag cattgttata gtctgattat ttctgtgttt tgaatatgat 3900
tttcctaatg ctctaaataa aatttttc                                    3928
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<210> 200
<211> 697
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2120743CD1

199

<400> 200

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Met Cys Lys Ser Leu Arg Tyr Cys Phe Ser His Cys Leu Tyr Leu
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Ala Met Thr Arg Leu Glu Glu Val Asn Arg Glu Val Asn Met His
                20                  25                  30
Ser Ser Val Arg Tyr Leu Gly Tyr Leu Ala Arg Ile Asn Leu Leu
                35                  40                  45
Val Ala Ile Cys Leu Gly Leu Tyr Val Arg Trp Glu Lys Thr Ala
                50                  55                  60
Asn Ser Leu Ile Leu Val Ile Phe Ile Leu Gly Leu Phe Val Leu
                65                  70                  75
Gly Ile Ala Ser Ile Leu Tyr Tyr Tyr Phe Ser Met Glu Ala Ala
                80                  85                  90
Ser Leu Ser Leu Ser Asn Leu Trp Phe Gly Phe Leu Leu Gly Leu
                95                  100                 105
Leu Cys Phe Leu Asp Asn Ser Ser Phe Lys Asn Asp Val Lys Glu
                110                 115                 120
Glu Ser Thr Lys Tyr Leu Leu Leu Thr Ser Ile Val Leu Arg Ile
                125                 130                 135
Leu Cys Ser Leu Val Glu Arg Ile Ser Gly Tyr Val Arg His Arg
                140                 145                 150
Pro Thr Leu Leu Thr Thr Val Glu Phe Leu Glu Leu Val Gly Phe
                155                 160                 165
Ala Ile Ala Ser Thr Thr Met Leu Val Glu Lys Ser Leu Ser Val
                170                 175                 180
Ile Leu Leu Val Val Ala Leu Ala Met Leu Ile Ile Asp Leu Arg
                185                 190                 195
Met Lys Ser Phe Leu Ala Ile Pro Asn Leu Val Ile Phe Ala Val
                200                 205                 210
Leu Leu Phe Phe Ser Ser Leu Glu Thr Pro Lys Asn Pro Ile Ala
                215                 220                 225
Phe Ala Cys Phe Phe Ile Cys Leu Ile Thr Asp Pro Phe Leu Asp
                230                 235                 240
Ile Tyr Phe Ser Gly Leu Ser Val Thr Glu Arg Trp Lys Pro Phe
                245                 250                 255
Leu Tyr Arg Gly Arg Ile Cys Arg Arg Leu Ser Val Val Phe Ala
                260                 265                 270
Gly Met Ile Glu Leu Thr Phe Phe Ile Leu Ser Ala Phe Lys Leu
                275                 280                 285
Arg Asp Thr His Leu Trp Tyr Phe Val Ile Pro Gly Phe Ser Ile
                290                 295                 300
Phe Gly Ile Phe Trp Met Ile Cys His Ile Ile Phe Leu Leu Thr
                305                 310                 315
Leu Trp Gly Phe His Thr Lys Leu Asn Asp Cys His Lys Val Tyr
                320                 325                 330
Phe Thr His Arg Thr Asp Tyr Asn Ser Leu Asp Arg Ile Met Ala
                335                 340                 345
Ser Lys Gly Met Arg His Phe Cys Leu Ile Ser Glu Gln Leu Val
                350                 355                 360
Phe Phe Ser Leu Leu Ala Thr Ala Ile Leu Gly Ala Val Ser Trp
                365                 370                 375
Gln Pro Thr Asn Gly Ile Phe Leu Ser Met Phe Leu Ile Val Leu
                380                 385                 390
Pro Leu Glu Ser Met Ala His Gly Leu Phe His Glu Leu Gly Asn
                395                 400                 405
Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile Val Ile Pro Thr
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200

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                    410                     415                     420
Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu Pro Pro Glu
                    425                     430                     435
His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu Asn Ala
                    440                     445                     450
Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly Cys
                    455                     460                     465
Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys
                    470                     475                     480
Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His
                    485                     490                     495
Asp Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly
                    500                     505                     510
Glu Trp Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu
                    515                     520                     525
Ile Glu Trp Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Arg Leu
                    530                     535                     540
Ile Ile Val Leu Asp Ser Glu Asn Ser Thr Pro Trp Val Lys Glu
                    545                     550                     555
Val Arg Lys Ile Asn Asp Gln Tyr Ile Ala Val Gln Gly Ala Glu
                    560                     565                     570
Leu Ile Lys Thr Val Asp Ile Glu Glu Ala Asp Pro Pro Gln Leu
                    575                     580                     585
Gly Asp Phe Thr Lys Asp Trp Val Glu Tyr Asn Cys Asn Ser Ser
                    590                     595                     600
Asn Asn Ile Cys Trp Thr Glu Lys Gly Arg Thr Val Lys Ala Val
                    605                     610                     615
Tyr Gly Val Ser Lys Arg Trp Ser Asp Tyr Thr Leu His Leu Pro
                    620                     625                     630
Thr Gly Ser Asp Val Ala Lys His Trp Met Leu His Phe Pro Arg
                    635                     640                     645
Ile Thr Tyr Pro Leu Val His Leu Ala Asn Trp Leu Cys Gly Leu
                    650                     655                     660
Asn Leu Phe Trp Ile Cys Lys Thr Cys Phe Arg Cys Leu Lys Arg
                    665                     670                     675
Leu Lys Met Ser Trp Phe Leu Pro Thr Val Leu Asp Thr Gly Gln
                    680                     685                     690
Gly Phe Lys Leu Val Lys Ser
                    695
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<210> 201
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3551330CB1

<400> 201
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cccacgcgtc cgcagcccgt gccgccccag ccgctgccgc ctgcaccgga cccggagccg  60
ccatgcccaa gtgtcccaag tgcaacaagg aggtgtactt cgccgagagg gtgacctctc 120
tgggcaagga ctggcatcgg ccctgcctga agtgcgagaa atgtgggaag acgctgacct 180
ctggggggcca cgctgagcac gaaggcaaac cctactgcaa ccaccccctgc tacgcagcca 240
tgtttgggcc taaaggcttt gggcggggcg gagccgagag ccacactttc aagtaaacca 300
ggtggtggag accccatcct tggctgcttg cagggccact gtccaggcaa atgccaggcc 360
ttgtccccag atgcccaggg ctcccttgtt gccccctaatg ctctcagtaa acctgaacac 420
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PA-0035 US

ttggaaaaaa aaaaaa   436

<210> 202
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3551330CD1

<400> 202
Met Pro Lys Cys Pro Lys Cys Asn Lys Glu Val Tyr Phe Ala Glu
 1   5   10   15
Arg Val Thr Ser Leu Gly Lys Asp Trp His Arg Pro Cys Leu Lys
                20   25   30
Cys Glu Lys Cys Gly Lys Thr Leu Thr Ser Gly Gly His Ala Glu
                35   40   45
His Glu Gly Lys Pro Tyr Cys Asn His Pro Cys Tyr Ala Ala Met
                50   55   60
Phe Gly Pro Lys Gly Phe Gly Arg Gly Gly Ala Glu Ser His Thr
                65   70   75
Phe Lys

<210> 203
<211> 2336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1440032CB1

<400> 203
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agcggcagca gcctccgtgg cctccagcat ccgacaagaa gcttcagcca tgcaggcccc 120
acgggagctc gcggtgggca tcgacctggg caccacctac tcgtgcgtgg gcgtgtttca 180
gcagggccgc gtggagatcc tggccaacga ccagggcaac cgcaccacgc ccagctacgt 240
ggccttcacc gacaccgagc ggctggtcgg ggacgcggcc aagagccagg cggccctgaa 300
cccccacaac accgtgttcg atgccaagcg gctgatcggg cgcaagttcg cggacaccac 360
ggtgcagtcg gacatgaagc actggccctt ccgggtggtg agcgagggcg gcaagcccaa 420
ggtgcgcgta tgctaccgcg gggaggacaa gacgttctac cccgaggaga tctcgtccat 480
ggtgctgagc aagatgaagg agacggccga ggcgtacctg gccagcccg tgaagcacgc 540
agtgatcacc gtgcccgcct atttcaatga ctcgcagcgc caggccacca aggacgcggg 600
ggccatcgcg gggctcaacg tgttgcggat catcaatgag cccacggcag ctgccatcgc 660
ctatgggctg gaccggcggg gcgcgggaga gcgcaacgtg ctcatttttg acctgggtgg 720
gggcaccttc gatgtgtcgg ttctctccat tgacgctggt gtctttgagg tgaaagccac 780
tgctggagat acccacctgg gaggagagga cttcgacaac cggctcgtga accacttcat 840
ggaagaattc cggcggaagc atgggaagga cctgagcggg aacaagcgtg ccctgcgcag 900
gctgcgcaca gcctgtgagc gcgccaagcg caccccgtcc tccagcaccc aggccaccct 960
ggagatagac tccctgttcg agggcgtgga cttctacacg tccatcactc gtgcccgctt 1020
tgaggaactg tgctcagacc tcttccgcag caccctggag ccggtggaga aggccctgcg 1080
ggatgccaag ctggacaagg cccagattca tgacgtcgtc ctggtggggg gctccacacg 1140
catccccaag gtgcagaagt gctgcagga cttcttcaac ggcaaggagc tgaacaagag 1200
catcaaccct gatgaggctg tggcctatgg ggctgctgtg caggcggccg tgttgatggg 1260
ggacaaatgt gagaaagtgc aggatctcct gctgctggat gtggctcccc tgtctctggg 1320

202

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gctggagaca gcaggtgggg tgatgaccac gctgatccag aggaacgcca ctatccccac 1380
caagcagacc cagactttca ccacctactc ggacaaccag cctggggtct tcatccaggt 1440
gtatgagggt gagagggcca tgaccaagga caacaacctg ctggggcgtt ttgaactcag 1500
tggcatccct cctgccccac gtggagtccc ccagatagag gtgacctttg acattgatgc 1560
taatggcatc ctgagcgtga cagccactga caggagcaca ggtaaggcta caagatcac 1620
catcaccaat gacaagggcc ggctgagcaa ggaggaggtg agaggatgg ttcatgaagc 1680
cgagcagtac aaggctgagg atgaggccca gagggacaga gtggctgcca aaaactcgct 1740
ggaggcccat gtcttccatg tgaaaggttc tttgcaagag gaaagcctta gggacaagat 1800
tcccgaagag gacaggcgca aaatgcaaga caagtgtcgg gaagtccttg cctggctgga 1860
gcacaaccag ctggcagaga aggaggagta tgagcatcag aagagggagc tggagcaaat 1920
ctgtcgcccc atcttctcca ggctctatgg ggggcctggt gtccctgggg gcagcagttg 1980
tggcactcaa gcccgccagg gggaccccag caccggcccc atcattgagg aggttgattg 2040
aatggccctt cgtgataagt cagctgtgac tgtcagggct atgctatggg ccttctagac 2100
tgtcttctat gatcctgccc ttcagagatg aactttccct ccaaagctag aactttcttc 2160
ccaggataac tgaagtcttt tgacttttg cggggagggc ggttcatcct cttctgcttc 2220
aaataaaaag tcattaattt attaaaactt gtgtggcact ttaacattgc tttcacctat 2280
attttgtgta ctttgttact tgcatgtatg aattttgtta tgtaaaatat agttat     2336
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<210> 204
<211> 643
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1440032CD1

<400> 204

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1               5                   10                  15
Thr Tyr Ser Cys Val Gly Val Phe Gln Gln Gly Arg Val Glu Ile
                20                  25                  30
Leu Ala Asn Asp Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala
                35                  40                  45
Phe Thr Asp Thr Glu Arg Leu Val Gly Asp Ala Ala Lys Ser Gln
                50                  55                  60
Ala Ala Leu Asn Pro His Asn Thr Val Phe Asp·Ala Lys Arg Leu
                65                  70                  75
Ile Gly Arg Lys Phe Ala Asp Thr Thr Val Gln Ser Asp Met Lys
                80                  85                  90
His Trp Pro Phe Arg Val Val Ser Glu Gly Gly Lys Pro Lys Val
                95                  100                 105
Arg Val Cys Tyr Arg Gly Glu Asp Lys Thr Phe Tyr Pro Glu Glu
                110                 115                 120
Ile Ser Ser Met Val Leu Ser Lys Met Lys Glu Thr Ala Glu Ala
                125                 130                 135
Tyr Leu Gly Gln Pro Val Lys His Ala Val Ile Thr Val Pro Ala
                140                 145                 150
Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Ala
                155                 160                 165
Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
                170                 175                 180
Ala Ala Ile Ala Tyr Gly Leu Asp Arg Arg Gly Ala Gly Glu Arg
                185                 190                 195
Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
                200                 205                 210
```

203

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Val Leu Ser Ile Asp Ala Gly Val Phe Glu Val Lys Ala Thr Ala
              215                 220                 225
Gly Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val
              230                 235                 240
Asn His Phe Met Glu Glu Phe Arg Arg Lys His Gly Lys Asp Leu
              245                 250                 255
Ser Gly Asn Lys Arg Ala Leu Arg Arg Leu Arg Thr Ala Cys Glu
              260                 265                 270
Arg Ala Lys Arg Thr Pro Ser Ser Ser Thr Gln Ala Thr Leu Glu
              275                 280                 285
Ile Asp Ser Leu Phe Glu Gly Val Asp Phe Tyr Thr Ser Ile Thr
              290                 295                 300
Arg Ala Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser Thr
              305                 310                 315
Leu Glu Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys
              320                 325                 330
Ala Gln Ile His Asp Val Val Leu Val Gly Gly Ser Thr Arg Ile
              335                 340                 345
Pro Lys Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Lys Glu
              350                 355                 360
Leu Asn Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala
              365                 370                 375
Ala Val Gln Ala Ala Val Leu Met Gly Asp Lys Cys Glu Lys Val
              380                 385                 390
Gln Asp Leu Leu Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu
              395                 400                 405
Glu Thr Ala Gly Gly Val Met Thr Thr Leu Ile Gln Arg Asn Ala
              410                 415                 420
Thr Ile Pro Thr Lys Gln Thr Gln Thr Phe Thr Thr Tyr Ser Asp
              425                 430                 435
Asn Gln Pro Gly Val Phe Ile Gln Val Tyr Glu Gly Glu Arg Ala
              440                 445                 450
Met Thr Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly
              455                 460                 465
Ile Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe
              470                 475                 480
Asp Ile Asp Ala Asn Gly Ile Leu Ser Val Thr Ala Thr Asp Arg
              485                 490                 495
Ser Thr Gly Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly
              500                 505                 510
Arg Leu Ser Lys Glu Glu Val Glu Arg Met Val His Glu Ala Glu
              515                 520                 525
Gln Tyr Lys Ala Glu Asp Glu Ala Gln Arg Asp Arg Val Ala Ala
              530                 535                 540
Lys Asn Ser Leu Glu Ala His Val Phe His Val Lys Gly Ser Leu
              545                 550                 555
Gln Glu Glu Ser Leu Arg Asp Lys Ile Pro Glu Glu Asp Arg Arg
              560                 565                 570
Lys Met Gln Asp Lys Cys Arg Glu Val Leu Ala Trp Leu Glu His
              575                 580                 585
Asn Gln Leu Ala Glu Lys Glu Glu Tyr Glu His Gln Lys Arg Glu
              590                 595                 600
Leu Glu Gln Ile Cys Arg Pro Ile Phe Ser Arg Leu Tyr Gly Gly
              605                 610                 615
Pro Gly Val Pro Gly Gly Ser Ser Cys Gly Thr Gln Ala Arg Gln
              620                 625                 630
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204

Gly Asp Pro Ser Thr Gly Pro Ile Ile Glu Glu Val Asp
                635   640
<210> 205
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1000133.1

<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

<400> 205
gcgaggagca gcccgcgctg ctcccgcccc tcgggtgcca gcnccgcccc tggctgcggc 60
gggtgagggg cggggcgggg cgcggcgtat ataaggctag gggcgggcgc cgctcttttg 120
tttcttgctg cagcaacgcg agtgggagca ccaggatctc gggctcggaa cgagactgca 180
cggattgttt taagaaaatg gcagacaaac ccagacatgg gggaaatcgc cagcttcgat 240
aaggccaagc tgaagaaaac ggagacgcag gagaagaaca ccctgccgac caaagagacc 300
attgagcagg agaagcggag tgaaatttcc taagatcctg gagcaggaga agcggagtga 360
aatttcctaa gatcctggag gatttcctac ccccgtcctc ttcgagaccc cagtcgtgat 420
gtggaggaag agccacctgc aagatggaca cgagccacaa gctgcactgt gaacctgggc 480
actccgcgcc gatgccaccg gcctgtgggt ctctgaaggg accccccccc aatcggactg 540
ccaaattctc cggtttgccc cgggatatta tagaaaatta tttgtatgaa taatgaaact 600
tcccaccaaa aaaaagttgc atattttggt aagtgtttgt cctagaggga aaaaacaact 660
gaaatttaca ttagcagtgc tgtgcaagat tcttacataa ttcaagacct aaaaccagcc 720
tgcagtggag gtttcagtcc tctgttcagg tgcttagaca gaagccataa gctga 775

<210> 206
<211> 556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4020439CB1

<400> 206
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acatggtgaa acccatctct aataaaaata caaaaattag tgcttcctcc agtccgtgcc 120
tccaatatga tgaaaaaaag aaggaacaac ggtcgtacca aaaagggccg cggccacgtg 180
cagcctattt gcgacacgaa ctgtgcccaa tgtgtgccca aggacaaggc tattaacaaa 240
ttcatcattg gaaacacagt ggaggctgca gcagtcaggg acatttctga agcgagcgtc 300
tttgatgcct atgtgcttcc caagctgtat ttgaagctac attactgtct gagttgtgca 360
attcacagca aagtagtcag gaatcgatct cgtgaagccc gcaaggaccg aacaccccca 420
ccccgattta gacctgcggg tgctgcccca cgtcccccac caaagcccat gtaaggagct 480
gagttcttaa agactgaaga caggctattc tctggagaaa aataaaatgg aaattgtact 540
taaaaaaaaa aaaaa 556

<210> 207
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4020439CD1

<400> 207
Met Met Lys Lys Arg Arg Asn Asn Gly Arg Thr Lys Lys Gly Arg
 1   5   10   15
Gly His Val Gln Pro Ile Cys Asp Thr Asn Cys Ala Gln Cys Val
                20   25   30
Pro Lys Asp Lys Ala Ile Asn Lys Phe Ile Ile Gly Asn Thr Val
                35   40   45
Glu Ala Ala Ala Val Arg Asp Ile Ser Glu Ala Ser Val Phe Asp
                50   55   60
Ala Tyr Val Leu Pro Lys Leu Tyr Leu Lys Leu His Tyr Cys Leu
                65   70   75
Ser Cys Ala Ile His Ser Lys Val Val Arg Asn Arg Ser Arg Glu
                80   85   90
Ala Arg Lys Asp Arg Thr Pro Pro Pro Arg Phe Arg Pro Ala Gly
                95   100   105
Ala Ala Pro Arg Pro Pro Pro Lys Pro Met
                110   115

<210> 208
<211> 4240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2507087CB1

<400> 208
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aaccgtctcc agccttggtc tgagtggact gtcctgcagc gaccatgccc cgtaaaggca 120
cccagccctc cactgcccgg cgcagagagg aagggccgcc gccgccgtcc cctgacggcg 180
ccagcagcga cgcggagcct gagccgccgt ccggccgcac ggagagccca gccaccgccg 240
cagagactgc aagtgaggaa cttgataata gaagtttaga agagattttg aacagcattc 300
ctcctccccc gcctccagca atgaccaatg aagctggagc tcctcggctt atgataactc 360
atattgtaaa ccagaacttc aaatcctatg ctggggagaa aattctggga cctttccata 420
agcgcttttc ctgtattatc gggccaaatg gcagtggcaa atccaatgtt attgattcta 480
tgctttttgt gtttggctat cgagcacaaa aaataagatc taaaaaactc tcagtattaa 540
tacataattc tgatgaacac aaggacattc agagttgtac agtagaagtt cattttcaaa 600
agataattga taaggaaggg gatgattatg aagtcattcc taacagtaat ttctatgtat 660
ccagaacggc ctgcagagat aatacttctg tctatcacat aagtggaaag aaaaagacat 720
ttaaggatgt tggaaatctt cttcgaagcc atggaattga cttggaccat aatagatttt 780
taattttaca gggtgaagtt gaacaaattg ctatgatgaa accaaaaggc cagactgaac 840
acgatgaggg tatgcttgaa tatttagaag atataattgg ttgtggacgg ctaaatgaac 900
ctattaaagt cttgtgtcgg agagttgaaa tattaaatga acacagagga gagaagttaa 960
acagggtaaa gatggtggaa aaggaaaagg atgccttaga aggagagaaa aacatagcta 1020
tcgaatttct taccttggaa aatgaaatat ttagaaaaaa gaatcatgtt tgtcaatatt 1080
atatttatga gttgcagaaa cgaattgctg aaatggaaac tcaaaaggaa aaaattcatg 1140
aagataccaa agaaattaat gagaagagca atatactatc aaatgaaatg aaagctaaga 1200
ataaagatgt aaaagataca gaaaagaaac tgaataaaat tacaaaattt attgaggaga 1260
ataaagaaaa atttacacag ctagatttgg aagatgttca agttagagaa aagttaaaac 1320
atgccacgag taaagccaaa aaactggaga acaacttca aaaagataaa gaaaggttg 1380
aagaatttaa aagtatacct gccaagagta caatatcat taatgaaaca acaaccagaa 1440
acaatgccct cgagaaggaa aaagagaaag aagaaaaaaa attaaaggaa gttatggata 1500

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gccttaaaca ggaaacacaa gggcttcaga aagaaaaaga aagtcgagag aaagaactta 1560
tgggtttcag caaatcggta aatgaagcac gttcaaagat ggatgtagcc cagtcagaac 1620
ttgatatcta tctcagtcgt cataatactg cagtgtctca attaactaag gctaaggaag 1680
ctctaattgc agcttctgag actctcaaag aaaggaaagc tgcaatcaga gatatagaag 1740
gaaaactccc tcaaactgaa caagaattaa aggagaaaga aaaagaactt caaaaactta 1800
cacaagaaga aacaaacttt aaaagtttgg ttcatgatct ctttcaaaaa gttgaagaag 1860
caaagagctc attagcaatg aatcgaagta ggggggaaagt ccttgatgca ataattcaag 1920
aaaaaaaatc tggcaggatt ccaggaatat atggaagatt gggggactta ggagccattg 1980
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<210> 209
<211> 1288
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2507087CD1

<400> 209

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                35              40                  45
Ala Glu Thr Ala Ser Glu Glu Leu Asp Asn Arg Ser Leu Glu Glu
                50              55                  60
Ile Leu Asn Ser Ile Pro Pro Pro Pro Pro Ala Met Thr Asn
                65              70                  75
Glu Ala Gly Ala Pro Arg Leu Met Ile Thr His Ile Val Asn Gln
                80              85                  90
Asn Phe Lys Ser Tyr Ala Gly Glu Lys Ile Leu Gly Pro Phe His
                95              100                 105
Lys Arg Phe Ser Cys Ile Ile Gly Pro Asn Gly Ser Gly Lys Ser
                110             115                 120
Asn Val Ile Asp Ser Met Leu Phe Val Phe Gly Tyr Arg Ala Gln
                125             130                 135
Lys Ile Arg Ser Lys Lys Leu Ser Val Leu Ile His Asn Ser Asp
                140             145                 150
Glu His Lys Asp Ile Gln Ser Cys Thr Val Glu Val His Phe Gln
                155             160                 165
Lys Ile Ile Asp Lys Glu Gly Asp Asp Tyr Glu Val Ile Pro Asn
                170             175                 180
Ser Asn Phe Tyr Val Ser Arg Thr Ala Cys Arg Asp Asn Thr Ser
                185             190                 195
Val Tyr His Ile Ser Gly Lys Lys Lys Thr Phe Lys Asp Val Gly
                200             205                 210
Asn Leu Leu Arg Ser His Gly Ile Asp Leu Asp His Asn Arg Phe
                215             220                 225
Leu Ile Leu Gln Gly Glu Val Glu Gln Ile Ala Met Met Lys Pro
                230             235                 240
Lys Gly Gln Thr Glu His Asp Glu Gly Met Leu Glu Tyr Leu Glu
                245             250                 255
Asp Ile Ile Gly Cys Gly Arg Leu Asn Glu Pro Ile Lys Val Leu
                260             265                 270
Cys Arg Arg Val Glu Ile Leu Asn Glu His Arg Gly Glu Lys Leu
                275             280                 285
Asn Arg Val Lys Met Val Glu Lys Glu Lys Asp Ala Leu Glu Gly
                290             295                 300
Glu Lys Asn Ile Ala Ile Glu Phe Leu Thr Leu Glu Asn Glu Ile
                305             310                 315
Phe Arg Lys Lys Asn His Val Cys Gln Tyr Tyr Ile Tyr Glu Leu
                320             325                 330
Gln Lys Arg Ile Ala Glu Met Glu Thr Gln Lys Glu Lys Ile His
                335             340                 345
Glu Asp Thr Lys Glu Ile Asn Glu Lys Ser Asn Ile Leu Ser Asn
                350             355                 360
Glu Met Lys Ala Lys Asn Lys Asp Val Lys Asp Thr Glu Lys Lys
                365             370                 375
Leu Asn Lys Ile Thr Lys Phe Ile Glu Glu Asn Lys Glu Lys Phe
                380             385                 390
Thr Gln Leu Asp Leu Glu Asp Val Gln Val Arg Glu Lys Leu Lys
                395             400                 405
His Ala Thr Ser Lys Ala Lys Lys Leu Glu Lys Gln Leu Gln Lys
```

```
                410                   415                   420
Asp Lys Glu Lys Val Glu Glu Phe Lys Ser Ile Pro Ala Lys Ser
                425                   430                   435
Asn Asn Ile Ile Asn Glu Thr Thr Thr Arg Asn Asn Ala Leu Glu
                440                   445                   450
Lys Glu Lys Glu Lys Glu Glu Lys Lys Leu Lys Glu Val Met Asp
                455                   460                   465
Ser Leu Lys Gln Glu Thr Gln Gly Leu Gln Lys Glu Lys Glu Ser
                470                   475                   480
Arg Glu Lys Glu Leu Met Gly Phe Ser Lys Ser Val Asn Glu Ala
                485                   490                   495
Arg Ser Lys Met Asp Val Ala Gln Ser Glu Leu Asp Ile Tyr Leu
                500                   505                   510
Ser Arg His Asn Thr Ala Val Ser Gln Leu Thr Lys Ala Lys Glu
                515                   520                   525
Ala Leu Ile Ala Ala Ser Glu Thr Leu Lys Glu Arg Lys Ala Ala
                530                   535                   540
Ile Arg Asp Ile Glu Gly Lys Leu Pro Gln Thr Glu Gln Glu Leu
                545                   550                   555
Lys Glu Lys Glu Lys Glu Leu Gln Lys Leu Thr Gln Glu Glu Thr
                560                   565                   570
Asn Phe Lys Ser Leu Val His Asp Leu Phe Gln Lys Val Glu Glu
                575                   580                   585
Ala Lys Ser Ser Leu Ala Met Asn Arg Ser Arg Gly Lys Val Leu
                590                   595                   600
Asp Ala Ile Ile Gln Glu Lys Lys Ser Gly Arg Ile Pro Gly Ile
                605                   610                   615
Tyr Gly Arg Leu Gly Asp Leu Gly Ala Ile Asp Glu Lys Tyr Asp
                620                   625                   630
Val Ala Ile Ser Ser Cys Cys His Ala Leu Asp Tyr Ile Val Val
                635                   640                   645
Asp Ser Ile Asp Ile Ala Gln Glu Cys Val Asn Phe Leu Lys Arg
                650                   655                   660
Gln Asn Ile Gly Val Ala Thr Phe Ile Gly Leu Asp Lys Met Ala
                665                   670                   675
Val Trp Ala Lys Lys Met Thr Glu Ile Gln Thr Pro Glu Asn Thr
                680                   685                   690
Pro Arg Leu Phe Asp Leu Val Lys Val Lys Asp Glu Lys Ile Arg
                695                   700                   705
Gln Ala Phe Tyr Phe Ala Leu Arg Asp Thr Leu Val Ala Asp Asn
                710                   715                   720
Leu Asp Gln Ala Thr Arg Val Ala Tyr Gln Lys Asp Arg Arg Trp
                725                   730                   735
Arg Val Val Thr Leu Gln Gly Gln Ile Ile Glu Gln Ser Gly Thr
                740                   745                   750
Met Thr Gly Gly Gly Ser Lys Val Met Lys Gly Arg Met Gly Ser
                755                   760                   765
Ser Leu Val Ile Glu Ile Ser Glu Glu Glu Val Asn Lys Met Glu
                770                   775                   780
Ser Gln Leu Gln Asn Asp Ser Lys Lys Ala Met Gln Ile Gln Glu
                785                   790                   795
Gln Lys Val Gln Leu Glu Glu Arg Val Val Lys Leu Arg His Ser
                800                   805                   810
Glu Arg Glu Met Arg Asn Thr Leu Glu Lys Phe Thr Ala Ser Ile
                815                   820                   825
Gln Arg Leu Ile Glu Gln Glu Glu Tyr Leu Asn Val Gln Val Lys
```

209

```
              830                    835                    840
Glu Leu Glu Ala Asn Val Leu Ala Thr Ala Pro Asp Lys Lys Lys
              845                    850                    855
Gln Lys Leu Leu Glu Glu Asn Val Ser Ala Phe Lys Thr Glu Tyr
              860                    865                    870
Asp Ala Val Ala Glu Lys Ala Gly Lys Val Glu Ala Glu Val Lys
              875                    880                    885
Arg Leu His Asn Thr Ile Val Glu Ile Asn Asn His Lys Leu Lys
              890                    895                    900
Ala Gln Gln Asp Lys Leu Asp Lys Ile Asn Lys Gln Leu Asp Glu
              905                    910                    915
Cys Ala Ser Ala Ile Thr Lys Ala Gln Val Ala Ile Lys Thr Ala
              920                    925                    930
Asp Arg Asn Leu Gln Lys Ala Gln Asp Ser Val Leu Arg Thr Glu
              935                    940                    945
Lys Glu Ile Lys Asp Thr Glu Lys Glu Val Asp Asp Leu Thr Ala
              950                    955                    960
Glu Leu Lys Ser Leu Glu Asp Lys Ala Ala Glu Val Val Lys Asn
              965                    970                    975
Thr Asn Ala Ala Glu Glu Ser Leu Pro Glu Ile Gln Lys Glu His
              980                    985                    990
Arg Asn Leu Leu Gln Glu Leu Lys Val Ile Gln Glu Asn Glu His
              995                   1000                   1005
Ala Leu Gln Lys Asp Ala Leu Ser Ile Lys Leu Lys Leu Glu Gln
             1010                   1015                   1020
Ile Asp Gly His Ile Ala Glu His Asn Ser Lys Ile Lys Tyr Trp
             1025                   1030                   1035
His Lys Glu Ile Ser Lys Ile Ser Leu His Pro Ile Glu Asp Asn
             1040                   1045                   1050
Pro Ile Glu Glu Ile Ser Val Leu Ser Pro Glu Asp Leu Glu Ala
             1055                   1060                   1065
Ile Lys Asn Pro Asp Ser Ile Thr Asn Gln Ile Ala Leu Leu Glu
             1070                   1075                   1080
Ala Arg Cys His Glu Met Lys Pro Asn Leu Gly Ala Ile Ala Glu
             1085                   1090                   1095
Tyr Lys Lys Lys Glu Glu Leu Tyr Leu Gln Arg Val Ala Glu Leu
             1100                   1105                   1110
Asp Lys Ile Thr Tyr Glu Arg Asp Ser Phe Arg Gln Ala Tyr Glu
             1115                   1120                   1125
Asp Leu Arg Lys Gln Arg Leu Asn Glu Phe Met Ala Gly Phe Tyr
             1130                   1135                   1140
Ile Ile Thr Asn Lys Leu Lys Glu Asn Tyr Gln Met Leu Thr Leu
             1145                   1150                   1155
Gly Gly Asp Ala Glu Leu Glu Leu Val Asp Ser Leu Asp Pro Phe
             1160                   1165                   1170
Ser Glu Gly Ile Met Phe Ser Val Arg Pro Pro Lys Lys Ser Trp
             1175                   1180                   1185
Lys Lys Ile Phe Asn Leu Ser Gly Gly Glu Lys Thr Leu Ser Ser
             1190                   1195                   1200
Leu Ala Leu Val Phe Ala Leu His His Tyr Lys Pro Thr Pro Leu
             1205                   1210                   1215
Tyr Phe Met Asp Glu Ile Asp Ala Ala Leu Asp Phe Lys Asn Val
             1220                   1225                   1230
Ser Ile Val Ala Phe Tyr Ile Tyr Glu Gln Thr Lys Asn Ala Gln
             1235                   1240                   1245
Phe Ile Ile Ile Ser Leu Arg Asn Asn Met Phe Glu Ile Ser Asp
```

210

```
                    1250              1255              1260
Arg Leu Ile Gly Ile Tyr Lys Thr Tyr Asn Ile Thr Lys Ser Val
                    1265              1270              1275
Ala Val Asn Pro Lys Glu Ile Ala Ser Lys Gly Leu Cys
                    1280              1285
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<210> 210
<211> 931
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 239996.1

<220>
<221> unsure
<222> 26, 32, 892, 908, 918
<223> a, t, c, g, or other

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aaccgccagc cctagcttgg agttccgttc cacggagtac cctccctccc caccccagc  180
gtcatctcgc gcctggagcc gggtcgccgc tccttccgaa gtctcgctgg aaacttcaag  240
ggctgatggt tctgtgttct tgacgtaatt aggaggccac gcagctctcc aacactccgt  300
taaacaaata tactcctgca ggctcagatt tgaagaggga aggttccagc caagtccacc  360
ttaagcctga gtttgggcga ctacagaatc caggaagaaa atctagatgg catggtcgct  420
ccggtctcag ttctacaggg gagggaagaa aggggtgtt agtggggata tttgctgttc  480
atttttcccg caatctccct tccaaatcag tcactgatta atgagcaaag cccatgccac  540
aagttataga ttactgtgga ctgaggatca ttttgttaat atcaggcaag aaacttgcct  600
tacttgcatc cctgtgtctg tatttacagt aacaacttcc ttagtcacaa actgatatgc  660
ttttagccat accttttctt cttacttact tatttttagc atcatcagga gttgggatag  720
gaaataacat ggggggagggg tgtgttaaag ggaaggaagg aaaagccatc ctttatccca  780
gagtgtcctg gaggtacgcc tacactcctg tttaacatct tgtggttgta gtgccttctc  840
caagccctag atggaggagg aaagagttgg aagcctcctc aaatctgcct angaaagggt  900
aaaactgngg aaactggnac cctagctatg a                                 931
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<210> 211
<211> 1565
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1097380.1

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ttagtttcaa caccagattg aaatggtttg ccatctgctt cgtatgtggc gttttctttt  180
ctccacctcc ttggtgactc caagtactca cacagtcatc acccctcccc gcacacagat  240
ggccacttct gcctccatcc actcaacgcc aacaggcacc attcctccac cgacaacgct  300
caaggccaca gggtccaccc acacagcgcc aacaaggacg ctgaccacca gcgggaccag  360
ccaagccctg agctcattaa acacagccaa aacctctaca tccctacatt cacacacttc  420
ctccacacac catcctgaag ccacctcaac ttctaccacc aacatcaccc ccaaccccac  480
cagtacagga actgggacac ctgtggggtt tcgggttcgg ggtttcctgg tgggcgtcag  540
```

```
gggcaggcaa cagagtggcg gccgctacgg ccctgtaaca gggccatgga gaagctgcgg 600
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aatctcttga ggtcctggat gcctcatccc ttagtttcaa caccagattg aaatggtttg 720
ccatctgctt cgtatgtggc gttttctttt ctattcttgg aactggattg ctgtggcttc 780
cgggcggcat aaatcttttt gcagtgtttt ataccctcgg caatcttgct gcgttagcca 840
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<210> 212
<211> 4130
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 021524.2c

<400> 212
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aacactttca tagaatcatt tggatcttgt atagagtgta acttattggg gataaacact 540
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tgccttcaga gggcagttga ttccagtcca gttgcctccc tagcttgtgt gtggcctgcc 720
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212

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ggtgcctgca gcagggcctc catgtagtca ctctgcctgg aacctgtctc cagggaagga 3540
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gcagaaggtg gtggggtgcc aggtggcttc ttgtggtagc tgggggggctg agttgggatc 3660
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214

PA-0035 US

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215

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<400> 216

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<223> Incyte ID No: 237623.6

<400> 217
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ggcagctgac agggctttgt ctgggacagc tgcaaaccag tgtgccgtgc cagccaagga 180
cagggtggac tgcggctacc cccatgtcac ccccaaggag tgcaacaacc ggggctgctg 240
ctttgactcc aggatccctg gagtgccttg gtgtttcaag cccctgcagg aagcagaatg 300
caccttctga ggcacctcca gctgcccccg gccgggggat gcgaggctcg gagcaccctt 360
gcccggctgt gattgctgcc aggcactgtt catctcagct tttctgtccc tttgctcccg 420
gcaagcgctt ctgctgaaag ttcatatctg gagcctgatg tcttaacgaa taaaggtccc 480
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<210> 218
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 076047.1

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aagacagtgt aattttgcat agtaccattt ttattttgaa agattatatt aatgcttggt 180
atgcgtaaaa tagctctgga aggattcaag aaagatctgc ttggttacct ctgagaaaag 240
gagttagatg ttggaaacag gggtgggagg aaaattgttt atattgcata atgtctttta 300
acgtttggat tttgtgttgt ggctaaggta gtacctatta gaaataaata aaattaggta 360
attttaaaaa taaagaaatg ctgtaaattt tg   392

<210> 219
<211> 1811
<212> DNA
<213> Homo sapiens

<220>
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tcttcggaaa catggctaga agtgatctat atgattgagc ccattgatga gtactgtgtc 540
caacagctga aggaatttga ggggaagact ttagtgtcag tcaccaaaga aggcctggaa 600
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tccctgtagt tgacaattct gcatgtacta gtcctctaga aataggttaa actgaagcaa 1620
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<211> 3347
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1099500.18

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cccgacggcc accgcttcgg agccagcacg cggggtaccc tacggggagc gcggatgccc 300
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cccgcccaga gtgctgaata cccgcgcgac cgtctggatc cccgcccagg aagcccctct 420
gaagcctcct cgccgccgtt tctgagaaga tgcctgagga aacccagacc caagaccaac 480
cgatggagga ggaggaggtt gagacgttcg cctttcaggc agaaattgcc cagttgatgt 540
cattgatcat caatactttc tactcgaaca aagagatctt tctgagagag ctcatttcaa 600
attcatcaga tgcattggac aaaatccggt atgaaagctt gacagatccc agtaaattag 660
actctgggaa agagctgcat attaacctta taccgaacaa acaagatcga actctcacta 720
ttgtggatac tggaattgga atgaccaagg ctgacttgat caataacctt ggtactatcg 780
ccaagtctgg gaccaaagcg ttcatggaag ctttgcaggc tggtgcagat atctctatga 840
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tcaccaaaca taacgatgat gagcagtacg cttgggagtc ctcagcaggg ggatcattca 960
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<210> 221
<211> 4170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2278688CB1

<400> 221
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221

PA-0035 US

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<210> 222
<211> 919
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2278688CD1

<400> 222
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Phe Leu Gly Pro Pro Pro Pro Leu Leu Leu Leu Val Phe Ser
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222

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Arg Ser Ser Arg Arg Arg Leu His Ser Leu Gly Leu Ala Ala Met
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Pro Glu Lys Arg Pro Phe Glu Arg Leu Pro Ala Asp Val Ser Pro
                50                    55                    60
Ile Asn Cys Ser Leu Cys Leu Lys Pro Asp Leu Leu Asp Phe Thr
                65                    70                    75
Phe Glu Gly Lys Leu Glu Ala Ala Ala Gln Val Arg Gln Ala Thr
                80                    85                    90
Asn Gln Ile Val Met Asn Cys Ala Asp Ile Asp Ile Ile Thr Ala
                95                    100                   105
Ser Tyr Ala Pro Glu Gly Asp Glu Glu Ile His Ala Thr Gly Phe
                110                   115                   120
Asn Tyr Gln Asn Glu Asp Glu Lys Val Thr Leu Ser Phe Pro Ser
                125                   130                   135
Thr Leu Gln Thr Gly Thr Gly Thr Leu Lys Ile Asp Phe Val Gly
                140                   145                   150
Glu Leu Asn Asp Lys Met Lys Gly Phe Tyr Arg Ser Lys Tyr Thr
                155                   160                   165
Thr Pro Ser Gly Glu Val Arg Tyr Ala Ala Val Thr Gln Phe Glu
                170                   175                   180
Ala Thr Asp Ala Arg Arg Ala Phe Pro Cys Trp Asp Glu Pro Ala
                185                   190                   195
Ile Lys Ala Thr Phe Asp Ile Ser Leu Val Val Pro Lys Asp Arg
                200                   205                   210
Val Ala Leu Ser Asn Met Asn Val Ile Asp Arg Lys Pro Tyr Pro
                215                   220                   225
Asp Asp Glu Asn Leu Val Glu Val Lys Phe Ala Arg Thr Pro Val
                230                   235                   240
Met Ser Thr Tyr Leu Val Ala Phe Val Val Gly Glu Tyr Asp Phe
                245                   250                   255
Val Glu Thr Arg Ser Lys Asp Gly Val Cys Val Arg Val Tyr Thr
                260                   265                   270
Pro Val Gly Lys Ala Glu Gln Gly Lys Phe Ala Leu Glu Val Ala
                275                   280                   285
Ala Lys Thr Leu Pro Phe Tyr Lys Asp Tyr Phe Asn Val Pro Tyr
                290                   295                   300
Pro Leu Pro Lys Ile Asp Leu Ile Ala Ile Ala Asp Phe Ala Ala
                305                   310                   315
Gly Ala Met Glu Asn Trp Gly Leu Val Thr Tyr Arg Glu Thr Ala
                320                   325                   330
Leu Leu Ile Asp Pro Lys Asn Ser Cys Ser Ser Ser Arg Gln Trp
                335                   340                   345
Val Ala Leu Val Val Gly His Glu Leu Ala His Gln Trp Phe Gly
                350                   355                   360
Asn Leu Val Thr Met Glu Trp Trp Thr His Leu Trp Leu Asn Glu
                365                   370                   375
Gly Phe Ala Ser Trp Ile Glu Tyr Leu Cys Val Asp His Cys Phe
                380                   385                   390
Pro Glu Tyr Asp Ile Trp Thr Gln Phe Val Ser Ala Asp Tyr Thr
                395                   400                   405
Arg Ala Gln Glu Leu Asp Ala Leu Asp Asn Ser His Pro Ile Glu
                410                   415                   420
Val Ser Val Gly His Pro Ser Glu Val Asp Glu Ile Phe Asp Ala
                425                   430                   435
Ile Ser Tyr Ser Lys Gly Ala Ser Val Ile Arg Met Leu His Asp
                440                   445                   450
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223

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Tyr Ile Gly Asp Lys Asp Phe Lys Lys Gly Met Asn Met Tyr Leu
              455                   460                   465
Thr Lys Phe Gln Gln Lys Asn Ala Ala Thr Glu Asp Leu Trp Glu
              470                   475                   480
Ser Leu Glu Asn Ala Ser Gly Lys Pro Ile Ala Ala Val Met Asn
              485                   490                   495
Thr Trp Thr Lys Gln Met Gly Phe Pro Leu Ile Tyr Val Glu Ala
              500                   505                   510
Glu Gln Val Glu Asp Asp Arg Leu Leu Arg Leu Ser Gln Lys Lys
              515                   520                   525
Phe Cys Ala Gly Gly Ser Tyr Val Gly Glu Asp Cys Pro Gln Trp
              530                   535                   540
Met Val Pro Ile Thr Ile Ser Thr Ser Glu Asp Pro Asn Gln Ala
              545                   550                   555
Lys Leu Lys Ile Leu Met Asp Lys Pro Glu Met Asn Val Val Leu
              560                   565                   570
Lys Asn Val Lys Pro Asp Gln Trp Val Lys Leu Asn Leu Gly Thr
              575                   580                   585
Val Gly Phe Tyr Arg Thr Gln Tyr Ser Ser Ala Met Leu Glu Ser
              590                   595                   600
Leu Leu Pro Gly Ile Arg Asp Leu Ser Leu Pro Pro Val Asp Arg
              605                   610                   615
Leu Gly Leu Gln Asn Asp Leu Phe Ser Leu Ala Arg Ala Gly Ile
              620                   625                   630
Ile Ser Thr Val Glu Val Leu Lys Val Met Glu Ala Phe Val Asn
              635                   640                   645
Glu Pro Asn Tyr Thr Val Trp Ser Asp Leu Ser Cys Asn Leu Gly
              650                   655                   660
Ile Leu Ser Thr Leu Leu Ser His Thr Asp Phe Tyr Glu Glu Ile
              665                   670                   675
Gln Glu Phe Val Lys Asp Val Phe Ser Pro Ile Gly Glu Arg Leu
              680                   685                   690
Gly Trp Asp Pro Lys Pro Gly Glu Gly His Leu Asp Ala Leu Leu
              695                   700                   705
Arg Gly Leu Val Leu Gly Lys Leu Gly Lys Ala Gly His Lys Ala
              710                   715                   720
Thr Leu Glu Glu Ala Arg Arg Arg Phe Lys Asp His Val Glu Gly
              725                   730                   735
Lys Gln Ile Leu Ser Ala Asp Leu Arg Ser Pro Val Tyr Leu Thr
              740                   745                   750
Val Leu Lys His Gly Asp Gly Thr Thr Leu Asp Ile Met Leu Lys
              755                   760                   765
Leu His Lys Gln Ala Asp Met Gln Glu Glu Lys Asn Arg Ile Glu
              770                   775                   780
Arg Val Leu Gly Ala Thr Leu Leu Pro Asp Leu Ile Gln Lys Val
              785                   790                   795
Leu Thr Phe Ala Leu Ser Glu Glu Val Arg Pro Gln Asp Thr Val
              800                   805                   810
Ser Val Ile Gly Gly Val Ala Gly Gly Ser Lys His Gly Arg Lys
              815                   820                   825
Ala Ala Trp Lys Phe Ile Lys Asp Asn Trp Glu Glu Leu Tyr Asn
              830                   835                   840
Arg Tyr Gln Gly Gly Phe Leu Ile Ser Arg Leu Ile Lys Leu Ser
              845                   850                   855
Val Glu Gly Phe Ala Val Asp Lys Met Ala Gly Glu Val Lys Ala
              860                   865                   870
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224

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Phe Phe Glu Ser His Pro Ala Pro Ser Ala Glu Arg Thr Ile Gln
                875               880               885
Gln Cys Cys Glu Asn Ile Leu Leu Asn Ala Ala Trp Leu Lys Arg
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Asp Ala Glu Ser Ile His Gln Tyr Leu Leu Gln Arg Lys Ala Ser
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Pro Pro Thr Val
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<210> 223
<211> 8412
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 380283.1

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<223> a, t, c, g, or other

<400> 223
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225

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226

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<210> 224
<211> 990
<212> DNA

227

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1720847CB1

<400> 224
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tggagtggga gggaggcgca ataagacacc cctccacaga gcttggcatc atgggaagct 240
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gcaatagacc agcctgcaag aaagacatgt gttttgatga caggcagtgt ggccgggtgg 600
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gaagtagcga tttggtgtga aaaaaaaaa                                    990
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<210> 225
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1720847CD1

<400> 225
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Ser Thr Glu Leu Gly Ile Met Gly Ser Trp Phe Tyr Leu Phe Leu
                20                  25                  30
Ala Pro Leu Phe Lys Gly Leu Ala Gly Ser Leu Pro Phe Gly Cys
                35                  40                  45
Leu Ser Leu Leu Gln Pro Thr Glu Lys Thr Ala Leu Gln Arg Trp
                50                  55                  60
Arg Val Phe Met Lys His Ser Cys Gln Glu Pro Arg His Arg Ala
                65                  70                  75
Gly Gly Leu Glu Lys Gly Gly His Thr Gly Gly Gly Arg Ser Trp
                80                  85                  90
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<210> 226
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 333776.1c

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<220>
<221> unsure
<222> 27, 43
<223> a, t, c, g, or other

<400> 226
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aaagctacct tcttcaagcc ctaggttgtt ttgtttttaga catacacatt ccatatatgt 180
gtgtgtatac acacacacac g                                             201


<210> 227
<211> 1278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3478236CB1

<400> 227
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<210> 228
<211> 252
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3478236CD1

<400> 228
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  1               5                  10                  15
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Asp Thr Tyr Ser Gly Lys Arg Glu Pro Phe Ser Gly Asp His Ser
            35              40              45
Ala Asp Gly Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly
            50              55              60
Ser Glu Ile Ser Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro
            65              70              75
Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu
            80              85              90
Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val Arg Val Glu
            95              100             105
Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu Asn Thr
            110             115             120
Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys
            125             130             135
Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
            140             145             150
Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu
            155             160             165
Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg
            170             175             180
Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser
            185             190             195
Leu Ser Lys Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala
            200             205             210
Val Ile Leu Thr Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg
            215             220             225
Gln Tyr Val Arg Lys Tyr Glu Gly Glu Ala Glu Glu Arg Lys Lys
            230             235             240
Leu Arg Gln Glu Asn Gly Asn Val His Ala Ile Ala
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<210> 229
<211> 5060
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 147541.17

<220>
<221> unsure
<222> 1806-1826
<223> a, t, c, g, or other

<400> 229
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cttttcgttg gcgggtgcct gggctggtgg gaacagccgc ccgaaggaag caccatgatt 180
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231

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 331120.16c

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<222> 433-455
<223> a, t, c, g, or other

<400> 230
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232

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233

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 575983CB1

<400> 231
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<210> 232
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 575983CD1

<400> 232
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Lys Lys Ile Lys Glu His Val Arg Ser Lys Thr Lys Val Pro Val
                35                  40                  45
Gln Asp Gln Val Leu Leu Leu Gly Ser Lys Ile Leu Lys Pro Arg
                50                  55                  60
Arg Ser Leu Ser Ser Tyr Gly Ile Asp Lys Glu Lys Thr Ile His
                65                  70                  75
Leu Thr Leu Lys Val Val Lys Pro Ser Asp Glu Glu Leu Pro Leu
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234

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                80                    85                    90
Phe Leu Val Glu Ser Gly Asp Glu Ala Lys Arg His Leu Leu Gln
                95                   100                   105
Val Arg Arg Ser Ser Ser Val Ala Gln Val Lys Ala Met Ile Glu
               110                   115                   120
Thr Lys Thr Gly Ile Ile Pro Glu Thr Gln Ile Val Thr Cys Asn
               125                   130                   135
Gly Lys Arg Leu Glu Asp Gly Lys Met Met Ala Asp Tyr Gly Ile
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<210> 233
<211> 5165
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 413268.6

<220>
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<222> 2249, 2252, 2255, 2258, 2261, 2264, 3470
<223> a, t, c, g, or other

<400> 233
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235

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236

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<211> 2678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1989186CB1

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237

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<211> 752
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1989186CD1

<400> 235
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Gly Leu Gln Leu Glu Ser Glu Val Val Thr Asn Gly Glu Thr Thr
                35                  40                  45
Cys Ser Glu Ser Ala Ser Gln Asn Asp Asp Gly Ser Arg Ser Lys
                50                  55                  60
Asp Glu Thr Arg Val Ser Thr Asn Gly Ser Asp Asp Pro Glu Asp
                65                  70                  75
Ala Gly Ala Gly Glu Asn Arg Arg Val Ser Gly Asn Asn Ser Pro
                80                  85                  90
Ser Leu Ser Asn Gly Gly Phe Lys Pro Ser Arg Pro Pro Arg Pro
                95                 100                 105
Ser Arg Pro Pro Pro Pro Thr Pro Arg Arg Pro Ala Ser Val Asn
               110                 115                 120
Gly Ser Pro Ser Ala Thr Ser Glu Ser Asp Gly Ser Ser Thr Gly
               125                 130                 135
Ser Leu Pro Pro Thr Asn Thr Asn Thr Asn Thr Ser Glu Gly Ala
               140                 145                 150
Thr Ser Gly Leu Ile Ile Pro Leu Thr Ile Ser Gly Gly Ser Gly
               155                 160                 165
Pro Arg Pro Leu Asn Pro Val Thr Gln Ala Pro Leu Pro Pro Gly
               170                 175                 180
Trp Glu Gln Arg Val Asp Gln His Gly Arg Val Tyr Tyr Val Asp
               185                 190                 195
His Val Glu Lys Arg Thr Thr Trp Asp Arg Pro Glu Pro Leu Pro
               200                 205                 210
Pro Gly Trp Glu Arg Arg Val Asp Asn Met Gly Arg Ile Tyr Tyr
               215                 220                 225
Val Asp His Phe Thr Arg Thr Thr Thr Trp Gln Arg Pro Thr Leu
               230                 235                 240
Glu Ser Val Arg Asn Tyr Glu Gln Trp Gln Leu Gln Arg Ser Gln
               245                 250                 255
Leu Gln Gly Ala Met Gln Gln Phe Asn Gln Arg Phe Ile Tyr Gly
               260                 265                 270
Asn Gln Asp Leu Phe Ala Thr Ser Gln Ser Lys Glu Phe Asp Pro
               275                 280                 285
Leu Gly Pro Leu Pro Pro Gly Trp Glu Lys Arg Thr Asp Ser Asn
               290                 295                 300
Gly Arg Val Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp
               305                 310                 315
Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu Lys Pro Leu Pro
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               320                    325                    330
Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile Pro Tyr Phe
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Val Asp His Asn Arg Arg Thr Thr Thr Tyr Ile Asp Pro Arg Thr
               350                    355                    360
Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val Arg
               365                    370                    375
Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln
               380                    385                    390
Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr
               395                    400                    405
Leu Phe Glu Asp Ser Phe Gln Gln Ile Met Ser Phe Ser Pro Gln
               410                    415                    420
Asp Leu Arg Arg Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly
               425                    430                    435
Leu Asp Tyr Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser
               440                    445                    450
His Glu Val Leu Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly
               455                    460                    465
Lys Asp Asn Tyr Cys Leu Gln Ile Asn Pro Ala Ser Tyr Ile Asn
               470                    475                    480
Pro Asp His Leu Lys Tyr Phe Arg Phe Ile Gly Arg Phe Ile Ala
               485                    490                    495
Met Ala Leu Phe His Gly Lys Phe Ile Asp Thr Gly Phe Ser Leu
               500                    505                    510
Pro Phe Tyr Lys Arg Ile Leu Asn Lys Pro Val Gly Leu Lys Asp
               515                    520                    525
Leu Glu Ser Ile Asp Pro Glu Phe Tyr Asn Ser Leu Ile Trp Val
               530                    535                    540
Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu Glu Met Tyr Phe Ser
               545                    550                    555
Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser His Asp Leu Lys
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Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn Lys Glu Glu
               575                    580                    585
Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly Val Glu
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Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu Pro
               605                    610                    615
Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu
               620                    625                    630
Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His
               635                    640                    645
Ala Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp
               650                    655                    660
Phe Trp Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg
               665                    670                    675
Leu Leu Gln Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly
               680                    685                    690
Phe Ala Asp Leu Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile
               695                    700                    705
Glu Lys Val Gly Lys Glu Asn Trp Leu Pro Arg Ser His Thr Cys
               710                    715                    720
Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu
               725                    730                    735
Lys Glu Lys Leu Leu Phe Ala Ile Glu Glu Thr Glu Gly Phe Gly
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Gln Glu


<210> 236
<211> 957
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 337448.1c

<400> 236
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atgcccaggg gtggccccca acagctgggg acgggggcca acactccagc caggggtcttt 240
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<210> 237
<211> 1187
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 228304.19

<220>
<221> unsure
<222> 52, 57
<223> a, t, c, g, or other

<400> 237
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ccgctatgtc ctgctggctt ccttagtgc catcttcctt ggaggcctct tcttggtttt 540
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<210> 238
<211> 2254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 420527.25

<220>
<221> unsure
<222> 231, 241
<223> a, t, c, g, or other

<400> 238
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ctagaaacta aaaaattatg tttcagtgaa tgctacaact aagcattttt nttttttaaga 240
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<210> 239
<211> 3685
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 998034.3

<400> 239
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<210> 240
<211> 3845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474165.26

<220>
<221> unsure
<222> 11
<223> a, t, c, g, or other

<400> 240
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ggatttttcc gcggaacaag tgcagaacag gataatcggt tcagcaacaa acagaagaaa 180
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aatttggagg ttataaagcc ttggataaca aaaagagtaa cggaaatcct tgggtttgaa 300
gatgatgttg tgattgagtt tatattcaac cagctggaag tgaagaatcc agactccaaa 360
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gaactgtggc ccctgctgct aagtgcacaa gaaaacatcg cgggaatccc ttctgctttc 480
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atgaaaaagc aagatgaaga caaagataaa agagataagg aagaaaaaga aagcagcaga 600
gaaaaaaggg agcggtctcg tagcccaaga agacgcaaat ccagatctcc ttcccctaga 660
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ccagaacctt cagtgaaagt aaaagaacct tcagtacaag aggctacttc tactagtgac 840
attctgaaag ttcccaaacc tgaacctata ccagagccta aagaaccttc tccggaaaaa 900
aattccaaaa aagaaaagga gaaggagaag acccgaccac gatctcggtc acgctccaaa 960
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tcaagatccc ggacgcggtc ccgctctcct tctcacactc gacctagacg gcgccataga 1020
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<210> 241
<211> 538
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 697785CB1

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ttcgagtgcg aggcgaggtg gctcctgacg ctaagagctt cgtgctgaac ctgggcaaag 180
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ccatcgtgtg caacagcaag gacggcgggg cctgggggac cgagcagcgg gaggctgtct 300
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ccgtcaagct gccagatgga tacgaattca agttccccaa ccgcctcaac ctggaggcca 420
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<210> 242
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 697785CD1

<400> 242
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                20   25   30
Phe Val Leu Asn Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His
                35   40   45
Phe Asn Pro Arg Phe Asn Ala His Gly Asp Ala Asn Thr Ile Val
                50   55   60
Cys Asn Ser Lys Asp Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu
                65   70   75
Ala Val Phe Pro Phe Gln Pro Gly Ser Val Ala Glu Val Cys Ile
                80   85   90
Thr Phe Asp Gln Ala Asn Leu Thr Val Lys Leu Pro Asp Gly Tyr
                95   100   105
Glu Phe Lys Phe Pro Asn Arg Leu Asn Leu Glu Ala Ile Asn Tyr
                110   115   120
Met Ala Ala Asp Gly Asp Phe Lys Ile Lys Cys Val Ala Phe Asp
                125   130   135

<210> 243
<211> 3763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 346209.3

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aggaggagga gaaggtcaag agcctcaata agctacggct caaatatgag gccacaatcg 180

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246

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cctgaactcc tgagcgacag aagcccagg cctccaccag ccttgaaccc ttgcaaaggg 3600
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tgctctgagg gttcggagct tccctctggg actaaaggag tgtcctttac cctcccagcc 3720
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<210> 244
<211> 473
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 167772CB1
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<400> 244
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gctcctgctc gcctgttggc tcctgtgcct gtgccggctc ctgcaaatgc aaagagtgca 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc tgtgggctgt gccaagtgtg 240
cccagggctg catctgcaaa gggacgtcag acaagtgcag ctgctgtgcc tgatgccagg 300
acagctgtgc tctcagatgt aaatagagca acctatataa acctggattt ttttttttt 360
tttttttgt acaaccctga cccgtttgct acatcttttt ttctatgaaa tatgtgaatg 420
gcaataaatt catctagact agaaaaaaaa aaagaacaa aaaaaaaaa agg        473
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<210> 245
<211> 61
<212> PRT
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 167772CD1
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<400> 245
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Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
                20                  25                  30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
                35                  40                  45
Gln Gly Cys Ile Cys Lys Gly Thr Ser Asp Lys Cys Ser Cys Cys
                50                  55                  60
Ala
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<210> 246
<211> 1291
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 2514988CB1
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<220>
<221> unsure
<222> 46
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<223> a, t, c, g, or other

<400> 246
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cgccgaagcc tgcagccatg cgaccccacg ccaccccgtg cctcctgcct ccgcgcagcc 1200
tgcagcggga gaccctgtcc ccgccccagc cgtcctcctg gggtggaccc tagtttaata 1260
aagattcacc aagtttcacg caaaaaaaaa a                            1291
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<210> 247
<211> 316
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2514988CD1

<400> 247
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Cys Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro
                20                  25                  30
Glu Leu Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu
                35                  40                  45
Leu Ala Leu Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr
                50                  55                  60
Leu Ser Glu Gln Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr
                65                  70                  75
Gln Glu Leu Arg Ala Leu Met Asp Glu Thr Met Lys Glu Leu Lys
                80                  85                  90
Ala Tyr Lys Ser Glu Leu Glu Glu Gln Leu Thr Pro Val Ala Glu
                95                  100                 105
Glu Thr Arg Ala Arg Leu Ser Lys Glu Leu Gln Ala Ala Gln Ala
                110                 115                 120
Arg Leu Gly Ala Asp Met Glu Asp Val Cys Gly Arg Leu Val Gln
                125                 130                 135
Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln Ser Thr Glu Glu
                140                 145                 150
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248

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Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu Arg Lys Arg
              155                 160                 165
Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr
              170                 175                 180
Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala Ile
              185                 190                 195
Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
              200                 205                 210
Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala
              215                 220                 225
Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
              230                 235                 240
Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala
              245                 250                 255
Glu Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu
              260                 265                 270
Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro
              275                 280                 285
Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys
              290                 295                 300
Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp
              305                 310                 315
Asn
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<210> 248
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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 481231.16

<400> 248
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ccaggctcgg catttctggc agcaagatga acccccccag agcccctggg atcgagtgaa 180
ggacctggcc actgtgtacg tggatgtgct caaagacagc ggcagagact atgtgtccca 240
gtttgaaggc tccgccttgg gaaaacagct aaacctaaag ctccttgaca actgggacag 300
cgtgacctcc accttcagca agctgcgcga acagctcggc cctgtgaccc aggagttctg 360
ggataacctg gaaaaggaga cagagggcct gaggcaggag atgagcaagg atctggagga 420
ggtgaaggcc aaggtgcagc cctacctgga cgacttccag aagaagtggc aggaggagat 480
ggagctccac cgccagaagc tgcacgagct gcaagagaag ctgagcccac tgggcgagga 540
gatgcgcgac cgcgcgcgcg cccatgtgga cgcgctgcgc acgcatctgg ccccctacag 600
cgacgagctg cgccagcgct tggccgcgcg ccttgaggct ctcaaggaga acggcggcgc 660
cagactggcc gactaccacg ccaaggccac cgagcatctg agcacgctca gcgagaaggc 720
caagcccgcg ctcgaggacc tccgccaagg cctgctgccc gtgctggaga gcttcaaggt 780
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ccgccgcccc ccttccc                                                857

<210> 249
<211> 2310
<212> DNA
<213> Homo sapiens

<220>
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249

<221> misc_feature
<223> Incyte ID No: 481231.17

<400> 249

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cctggctgca atgagtgggg gagcacgggg cttctgcatg ctgaaggcac cccactcagc 180
caggcccttc ttctcctcca ggtcccccac ggcccttcag gatgaaagct gcggtgctga 240
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cacggccaag gtcagcaccg cagctttcat cctgaagggc cgtgggggac ctggaggaga 2220
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<210> 250
<211> 4200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1045853.2

<220>
<221> unsure
<222> 128, 197, 395-532

<223> a, t, c, g, or other

<400> 250
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acaaccattg gtgagancc cctggcacct gcatacacag tgcatctagt tgcatcccct 240
ccccaaactg ccccaacccc acttagccat ctctttccca taaggcagag aaaggaaaat 300
acaagcatca gaggtgaagg aggctgggac acccccaggg aaggggcttc agggccttgc 360
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
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aaggagatgc ccaggctaat gggagacaaa acatccttga cacccagaca gactaatggc 1020
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251

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caaattccag aatgcgctat tagttcgtta caccaagaaa gtaccccaag tgtcaactcc 3240
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agttatggat tataaacatt caaaataata ttttgacatt atgataattc tgaataaaag 4140
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<210> 251
<211> 1344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 336615.1

<400> 251

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ccgggagttt gtgctccggc ctgcccccca gggccgcacg gtgcgctgcc ggctgacccg 180
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gtccaacctc ctggggaacc gcttcacggt ctttgacaac gggcagaacc cacagcgtgg 420
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ttttaacctc ccctctcccc gggaccgcgc tagggctccg aggagctggg gcgggctagg 1260
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```

<210> 252
<211> 1120
<212> DNA
<213> Homo sapiens

252

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<221> misc_feature
<223> Incyte ID No: 1328423.2

<220>
<221> unsure
<222> 12, 27, 33-34, 1070
<223> a, t, c, g, or other

<400> 252
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gagtttatgt agtcatttta cttattttat tcattagcta actttgtcta tgtatatttc 960
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attttaaaac atttgcattt taccaccaaa aaaaaaaaaa 1120

<210> 253
<211> 551
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 085282.1

<220>
<221> unsure
<222> 132
<223> a, t, c, g, or other

<400> 253
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ttacctgttt cnagatgaca atattactaa aatttctcaa atgaagactt tgttttagct 180
tcaattactt cagaaaatat aaattttaaa gatgactatg agataaatca tgaactcagt 240
ggaattttca gatgagatgg ggcgcgttca gggtggtatg actgtagacg gaattttcag 300
atctttgtta tttagaagca agtataggta taacgtggac tatcaactga tatctgcaaa 360
taatttggtt aaaatgaaat ttgattgtag tatttgttgc tgtaggatta taaatgtcaa 420
atatcattgt aaacatttct atatttttag aaatatcttg ggtggcctga aacagaagtg 480
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cataccataa a 551
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<211> 3814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1081605.3

<220>
<221> unsure
<222> 3792, 3796-3801
<223> a, t, c, g, or other

<400> 254
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gttacccatc ttctagtgga cattggttgt aagattgagg tcatttgttt ttgtcgtagg 180
aagcagtgac cttcaaggac gtggctgtgg ccttcacgga ggaggaattg gggctgctgg 240
gccctgccca gaggaagctg taccgagatg tgatggtgga gaactttagg aacctgctgt 300
cagtgggcta tcaacccttc aaactagatg tgatattaca gttgggaaaa gaagacaagc 360
ttcggatgat ggagacagaa atccaaggag atggatgttc aggaaggaag aatcaacaaa 420
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gtggaaaggg cttcagtcag agagcatatc ttcaaggtca tcagagagtc cacactagag 2400
tgaaaccgta taaatgtgag atgtgtggga agggctttag tcagagttcg cgccttgaag 2460
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254

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aatgtgaaca gtgtggtaag ggtttcagtg ggtattcaag tcttcaagcc catcacagag 2640
tccacacagg agagaaacca tacaaatgtg aggtatgtgg aaagggcttc agtcagagat 2700
caaatcttca ggctcaccag agagtccaca caggagagaa accatacaaa tgtgatgcat 2760
gtggtaaggg tttccgttgg agctcaggtc ttctcattca tcaaagagtc catagtagtg 2820
ataaattcta taaaagcgaa gactatggta aggactaccc ttcatcagag aatctacaca 2880
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cgagggattt tgttagaact ttaacatcag tcattgcaca ggagctaagg cttataaaat 3120
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ctagaatgta agcttggtga aagaagggac tttgttcatt gctagtctac aaaactagga 3240
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ggtaaaaggt ttgaaatttt taagcgcatt ttttaaaact taaaatgtat ttggaggaga 3360
aatcctgcaa gtaatcttaa taaaatcatt tcaagtaaat atttgaaatg tagaacaata 3420
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tattttacat aattgatttt ctactcctgc cctgtgaatt aaggcagagt tttactgtaa 3720
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acaaaaaaaa anaacnnnnn naaaaaaaaa aagg                             3814
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<210> 255
<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1053517.1

<220>
<221> unsure
<222> 69
<223> a, t, c, g, or other

<400> 255
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agtgtgagca gcctgttgat ggagaaatcc caacttggcc aggaagtcct tcccaacttc 180
tctgcaggtg gaaggctccc ctgacacatg gaatgtgcag gtcttcacaa aca          233


<210> 256
<211> 2622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 480169.76

<400> 256
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aagtaccagc acaccggcgc cgtcctggac tgcgccttct acgatccaac gcatgcctgg 300
agtggaggac tagatcatca attgaaaatg catgatttga acactgatca agaaaatctt 360
gttgggaccc atgatgcccc tatcagatgt gttgaatact gtccagaagt gaatgtgatg 420
gtcactggaa gttgggatca gacagttaaa ctgtgggatc ccagaactcc ttgtaatgct 480
gggaccttct ctcagcctga aaaggtatat accctctcag tgtctggaga ccggctgatt 540
gtgggaacag caggccgcag agtgttggtg tgggacttac ggaacatggg ttacgtgcag 600
cagcgcaggg agtccagcct gaaataccag actcgctgca tacgagcgtt tccaaacaag 660
cagggttatg tattaagctc tattgaaggc cgagtggcag ttgagtattt ggacccaagc 720
cctgaggtac agaagaagaa gtatgccttc aaatgtcaca gactaaaaga aaataatatt 780
gagcagattt acccagtcaa tgccatttct tttcacaata tccacaatac atttgccaca 840
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ttccatcggt accccacgag catcgcatca cttgccttca gtaatgatgg gactacgctt 960
gcaatagcgt catcatatat gtatgaaatg gatgacacag aacatcctga agatggtatc 1020
ttcattcgcc aagtgacaga tgcagaaaca aaacccaagt caccatgtac ttgacaagat 1080
ttcatttact taagtgccat gttgatgata ataaacaat tcgtactccc caatggtgga 1140
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taatggaaaa gaggtttttg aatttttttt tttaaataaa caccttctta agtgcatgag 1260
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ctgcagtttt gagaatcagt tttgaccttg atgatttttt gtttccactg tggaaataaa 1380
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<210> 257
<211> 1002
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2636043CB1

<400> 257
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ccagacctct agctctcagg gaggccttgg cggtctaagt ctgaccacag agccagtttc 180
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256

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ttccaaccca ggatacatcc cttcctcaga ggctaacagg ccaagccatc tgtccagcac 240
tggtacccca ggcgcaggtg tccccagcag tggaagagac ggaggcacaa gcagagacac 300
atttcaaact gttcccccca attcaaccac catgagcctg agcatgaggg aagatgcgac 360
catcctgccc agccccacgt cagagactgt gctcactgtg ctgcatttg gtgttatcag 420
cttcattgtc atcctggtgg ttgtggtgat catcctagtt ggtgtggtca gcctgaggtt 480
caagtgtcgg aagagcaagg agtctgaaga tccccagaaa cctgggagtt cagggctgtc 540
tgaaagctgc tccacagcca atggagagaa agacagcatc acccttatct ccatgaagaa 600
catcaacatg aataatggca aacaaagtct ctcagcagag aaggttcttt aaaagcaact 660
ttgggtcccc atgagtccaa ggatgatgca gctgccctgt gactacaagg aggaagagat 720
ggaattagta gaggcaatga accacatgta aattatttta ttgtttcatg tctgcttcta 780
gatctaaagg acactagcat tgccccagat ctgggagcaa gctaccaaca ggggagactc 840
tttcctgtat ggacagctgc tgtggaaata ctgcctgctt ctcccacctc ctcagagcca 900
caggaaagag gaggtgacag agagagagca aggaaagtga tgaggtggat tgatactttc 960
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<210> 258
<211> 205
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2636043CD1

<400> 258
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                20                  25                  30
Thr Ser Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr
                35                  40                  45
Glu Pro Val Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala
                50                  55                  60
Asn Arg Pro Ser His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly
                65                  70                  75
Val Pro Ser Ser Gly Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe
                80                  85                  90
Gln Thr Val Pro Pro Asn Ser Thr Thr Met Ser Leu Ser Met Arg
                95                  100                 105
Glu Asp Ala Thr Ile Leu Pro Ser Pro Thr Ser Glu Thr Val Leu
                110                 115                 120
Thr Val Ala Ala Phe Gly Val Ile Ser Phe Ile Val Ile Leu Val
                125                 130                 135
Val Val Val Ile Ile Leu Val Gly Val Val Ser Leu Arg Phe Lys
                140                 145                 150
Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro Gln Lys Pro Gly Ser
                155                 160                 165
Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn Gly Glu Lys Asp
                170                 175                 180
Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met Asn Asn Gly
                185                 190                 195
Lys Gln Ser Leu Ser Ala Glu Lys Val Leu
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<210> 259
<211> 2539
<212> DNA
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257

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2993696CB1

<400> 259
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cacggtggtc ggcatcgacc tggggaccac ctactcctgc gtcggcgtgt tcaagaacgg 360
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<210> 260
<211> 654
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2993696CD1

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Val Gly Ile Asp Leu Gly Thr Thr Tyr Ser Cys Val Gly Val Phe
                35   40   45
Lys Asn Gly Arg Val Glu Ile Ile Ala Asn Asp Gln Gly Asn Arg
                50   55   60
Ile Thr Pro Ser Tyr Val Ala Phe Thr Pro Glu Gly Glu Arg Leu
                65   70   75
Ile Gly Asp Ala Ala Lys Asn Gln Leu Thr Ser Asn Pro Glu Asn
                80   85   90
Thr Val Phe Asp Ala Lys Arg Leu Ile Gly Arg Thr Trp Asn Asp
                95   100   105
Pro Ser Val Gln Gln Asp Ile Lys Phe Leu Pro Phe Lys Val Val
                110   115   120
Glu Lys Lys Thr Lys Pro Tyr Ile Gln Val Asp Ile Gly Gly Gly
                125   130   135
Gln Thr Lys Thr Phe Ala Pro Glu Glu Ile Ser Ala Met Val Leu
                140   145   150
Thr Lys Met Lys Glu Thr Ala Glu Ala Tyr Leu Gly Lys Lys Val
                155   160   165
Thr His Ala Val Val Thr Val Pro Ala Tyr Phe Asn Asp Ala Gln
                170   175   180
Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala Gly Leu Asn Val
                185   190   195
Met Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala Ile Ala Tyr Gly
                200   205   210
Leu Asp Lys Arg Glu Gly Glu Lys Asn Ile Leu Val Phe Asp Leu
                215   220   225
Gly Gly Gly Thr Phe Asp Val Ser Leu Leu Thr Ile Asp Asn Gly
                230   235   240
Val Phe Glu Val Val Ala Thr Asn Gly Asp Thr His Leu Gly Gly
                245   250   255
Glu Asp Phe Asp Gln Arg Val Met Glu His Phe Ile Lys Leu Tyr
                260   265   270
Lys Lys Lys Thr Gly Lys Asp Val Arg Lys Asp Asn Arg Ala Val
                275   280   285
Gln Lys Leu Arg Arg Glu Val Glu Lys Ala Lys Arg Ala Leu Ser
                290   295   300
Ser Gln His Gln Ala Arg Ile Glu Ile Glu Ser Phe Tyr Glu Gly
                305   310   315
Glu Asp Phe Ser Glu Thr Leu Thr Arg Ala Lys Phe Glu Glu Leu
                320   325   330
Asn Met Asp Leu Phe Arg Ser Thr Met Lys Pro Val Gln Lys Val
                335   340   345
Leu Glu Asp Ser Asp Leu Lys Lys Ser Asp Ile Asp Glu Ile Val
                350   355   360
Leu Val Gly Gly Ser Thr Arg Ile Pro Lys Ile Gln Gln Leu Val
                365   370   375
Lys Glu Phe Phe Asn Gly Lys Glu Pro Ser Arg Gly Ile Asn Pro

259

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Asp Glu Ala Val Ala Tyr Gly Ala Ala Val Gln Ala Gly Val Leu
                    395                 400                 405
Ser Gly Asp Gln Asp Thr Gly Asp Leu Val Leu Leu Asp Val Cys
                    410                 415                 420
Pro Leu Thr Leu Gly Ile Glu Thr Val Gly Gly Val Met Thr Lys
                    425                 430                 435
Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys Ser Gln Ile
                    440                 445                 450
Phe Ser Thr Ala Ser Asp Asn Gln Pro Thr Val Thr Ile Lys Val
                    455                 460                 465
Tyr Glu Gly Glu Arg Pro Leu Thr Lys Asp Asn His Leu Leu Gly
                    470                 475                 480
Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Arg Gly Val Pro
                    485                 490                 495
Gln Ile Glu Val Thr Phe Glu Ile Asp Val Asn Gly Ile Leu Arg
                    500                 505                 510
Val Thr Ala Glu Asp Lys Gly Thr Gly Asn Lys Asn Lys Ile Thr
                    515                 520                 525
Ile Thr Asn Asp Gln Asn Arg Leu Thr Pro Glu Glu Ile Glu Arg
                    530                 535                 540
Met Val Asn Asp Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu
                    545                 550                 555
Lys Glu Arg Ile Asp Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr
                    560                 565                 570
Ser Leu Lys Asn Gln Ile Gly Asp Lys Glu Lys Leu Gly Gly Lys
                    575                 580                 585
Leu Ser Ser Glu Asp Lys Glu Thr Met Glu Lys Ala Val Glu Glu
                    590                 595                 600
Lys Ile Glu Trp Leu Glu Ser His Gln Asp Ala Asp Ile Glu Asp
                    605                 610                 615
Phe Lys Ala Lys Lys Lys Glu Leu Glu Glu Ile Val Gln Pro Ile
                    620                 625                 630
Ile Ser Lys Leu Tyr Gly Ser Ala Gly Pro Pro Pro Thr Gly Glu
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Glu Asp Thr Ala Glu Lys Asp Glu Leu
                    650
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<210> 261
<211> 674
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 240518.21

<220>
<221> unsure
<222> 37
<223> a, t, c, g, or other

<400> 261
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ggaggacgct gaggggcgga ggcgggagag gcgagctcgc gatgagtggt ctcggcaggc 120
tcttcgggaa gggtgagcca gggtgggact ggccagccag gaggcgctgg ctggtgcagg 180
ggaagaggag accccggcga gattcggccg gaccgctgcg ccgggcaggg gaagagaatc 240
```

```
aggagacagg ctgactggaa aaccccggcg gccgatggcg gagcaaggct catcgccggt 300
gccaaaaggc acaccatgtc ggggcgcctt gttcccgtcc gccgtcctcc cccactctca 360
gagggaagaa ctcaagatct gggaggggac ttgagttgag ggcgtggcga tcgtgctgac 420
tcccactgtt caggcttgaa gacgagtttc ctgctgtctt cagccatttt caaaaccttg 480
ttctataata ctttgtgctg ggcaagaggg atctaaggga agaaggagaa agggccaacc 540
cctgaagaag caatacagaa actgaaggag acagagaaga tactgatcaa gaaacaggaa 600
tttttggagc agaagattca acaggagcta caaacagcca agaagtatgg gaccaagaat 660
aagagagctg ccct                                                   674
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<210> 262
<211> 2015
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 240518.34

<220>
<221> unsure
<222> 748
<223> a, t, c, g, or other

<400> 262

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ggggcgaga taggacccag ccagggctga gcgcactctt gccctctcca gtgatggaac 180
tgtacgagat aggcggggcc aagacgtccg actgtaccca gaggtgcctg aggtcctaaa 240
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ggccaaccag ctactggagc tctttgacct cttcaggtgt tacctgcatt cacatccaga 360
atggaatgaa tcttcaaact ctaagtcaag ggttagagac atttgcgaag cccaaactg 420
ggcctttgag gtccagcctt gaggagagcc catttgaggc ctaaactgaa aggaaatcaa 480
gaaggcattt tcaggtgcat ttgtaattta ttaaagttca tctgtgtgtg acagaagaga 540
ttttacccac agtgtgggga gtttctattt ttctagcctg tgaaatgggg ttggttgtcc 600
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gaagttttcc cactgacccc atactctncg ggtgccatca cactgcacat ttccttccgg 780
agaacaagca cgtactcagg tggagataga actgtctttt tacttaatag aaaatgatgt 840
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ctttttgggg aagtcatgct gagggtggta gtgtgaccct gcctgaaaaa agggtctctt 1860
accctcccag ccctggctca actctgaaga aggatcttgc tacagaagga gcccttgggc 1920
```

```
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tcctagtgtc tatactgcct tgtctacccc tgaag                           2015
```

<210> 263
<211> 4446
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 001322.4c

<220>
<221> unsure
<222> 167-332
<223> a, t, c, g, or other

<400> 263

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ttaacatcag gatatttata ttcaaggctc tatggtatca agttttnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttgagat tttttaaagt ccatattttt 360
ttgttattta aacgtgatat tattcaacat tgatgaactt gggtcgtgag ttctaaaagg 420
gattcaaaat aaaatggcat tttcactttt ttaaaattaa gatacttttt catgatcaaa 480
aatatgttgt gtctccctcc tgaccctcct tttcaggtag gtagcaaacg ttgcgaaatt 540
tagttggcat atgcttcaga caaccttttta cttaaatcat tatcctcact gctatctttt 600
tttttgaagt tgtatactcc taaaatgttt taagcactta attttctttt tatattatta 660
attgttttca acccactaat aagtaccatt ttgctaattg ggaaattaat acatattgtc 720
aaagaaacag actaaactgt attttgaaaa tcctgaagaa taaaaatttg taaaaggaaa 780
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atttagaaaa aggcatttaa ttacaaaatt ttcttttaaa taaaaaagca atggcacgaa 1020
tcaccacaaa atcatttaag tgatcatatc cacaggctgt tcttgtaatt atatgctaaa 1080
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<210> 264
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 350502.3

<400> 264

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cccgtctcca ccccttatca taccagaaag atgggatcat catggccaag tgggaggcct 180
cagcactcac tcttccctac atccccatta ctcccccatc ctccctcccc aagcttctct 240
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ccgagcagag tgtgactgaa tgtgcctccc ggggctgggg gaacagtgac tgtacgcacg 360
atgaggatgc tggggtcatc tgcaaagacc agcgcctccc tggcttctcg gactccaatg 420
tcattgaggc ccgtgtccgt ctaaagggcg gcgcccaccc tggagagggc cgggtagaag 480
```

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gcgtggtgtg tc                                                    552
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<210> 265
<211> 1016
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 350502.4c

<400> 265
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gcatcccgca gaccacgtgg ctgttgtggg cgctccagcc tttgtcgcac acttgcgacc 360
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acccaacggc gggtcgaatt cgcacctcct ccacttgcag gtgatgctct acctcaatga 480
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cgtgcgtaca gtcactgttc ccccagcccc gggaggcaca ttcagtcaca ctctgctcgg 600
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tgtgggtcca gcctgtggcc tctgtgaagc ccagctcccg gcagaggatg tgggcagcct 720
gcagcgtgaa gtcatcatcg cagatggtgc cccattcacc agctcgctgt atctccacgc 780
ggccctcgta gggcttcctg gggaagccag ccagccggaa ccgaagcccc tggctcccgg 840
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acagcagcag cccccagggg ctccactgcc agacactgac aggtcgcatg gcagggaagg 960
ccttggccga gcaggaccct aagggctggg agaagagtgc tggtcctgga gatcag     1016
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<210> 266
<211> 1843
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 253783.3

<220>
<221> unsure
<222> 1824
<223> a, t, c, g, or other

<400> 266
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gccctcaccc taaccctggg ctctacccca gctgtcaccg agggcctggg gtgcgacggc 120
tgatggatga cggagggaaa ggaaggggcg ggtccctgag gcctcatagc tctcccaggc 180
gccgaccctg ccatggaacc gttagtataa gggaaggagg ggttggggtg gggaatggta 240
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tgccctggac tcagactccg tcgggctgag catcggtcag gtttccaagc tccccaagtg 360
tttctggacc tgcaggtttg aaattctgcc tctgagaagc taacagtctt cctgtggtcg 420
ccactcctcc ccagcagccc cctccttgcc aaggacggtc cagaaggagc cccactgggg 480
cctgccccgc tcagcaaagc agacctcacc tcccactacc agcttgaagt cacagcagcc 540
agaggaaatt ctgccaccat tttcccaggt ctgcagcccc tccagctggg aacctgctcc 600
```

```
tggagccatc cctctgcaaa cagagagccc agagtgcctc ggggaaaatt ggctgaataa 660
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cccacgcagg actactccgg ccagacccccg gtccccacag agcatggcat gaccctgtac 840
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cggttcaggg accccgactt gcggcaaatg ttcgggcaat tcggaaaaat tttagacgtg 1080
gagatcattt ttaacgagcg gggctccaag ggttttgggt ttgtaacttt tgaaactagc 1140
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```

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<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 085119.1

<220>
<221> unsure
<222> 847
<223> a, t, c, g, or other

<400> 267
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gacccgacgg cccaagcact gactcccagg caagagtcgc ccttcctggt ccccagggaa 480
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```

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<210> 268
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<212> DNA
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PA-0035 US

<213> Homo sapiens

<220>
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<223> Incyte ID No: 902559.1

<220>
<221> unsure
<222> 4850-5163
<223> a, t, c, g, or other

<400> 268
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gtggctcttg cctcgatgtc ctagcctagg ggcccccggg ccggacttgg ctgggctccc  180
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cccttggatg gggaactaag ggaaaacgtc tgttgtatca ctgaagtttt ttgtttgtt 5640
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<210> 269
<211> 2188
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4113161CB1

<400> 269
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ccctcagctg cagcacatct ttgagcgggt ccgccagagc gccgacttca tgccccgctg 600
gcagatgctg agagttcttg aagaggagct cggcagggac tggcaggcca aggtggcctc 660
cttggaggag gtgccctttg ccgctgcctc aattgggcag gtgcaccagg gcctgctgag 720
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<210> 270
<211> 544
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4113161CD1

<400> 270
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Leu Gly Gln Thr Val Gly Trp Pro Cys Gly Ala Leu Gly Pro Gly
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                        20                      25                      30
Pro His Arg Trp Gly Pro Cys Gly Gly Ser Trp Ala Gln Lys Phe
                        35                      40                      45
Tyr Gln Asp Gly Pro Gly Arg Gly Leu Gly Glu Glu Asp Ile Arg
                        50                      55                      60
Arg Ala Arg Glu Ala Arg Pro Arg Lys Thr Pro Arg Pro Gln Leu
                        65                      70                      75
Ser Asp Arg Ser Arg Glu Arg Lys Val Pro Ala Ser Arg Ile Ser
                        80                      85                      90
Arg Leu Ala Asn Phe Gly Gly Leu Ala Val Gly Leu Gly Leu Gly
                        95                     100                     105
Val Leu Ala Glu Met Ala Lys Lys Ser Met Pro Gly Gly Arg Leu
                       110                     115                     120
Gln Ser Glu Gly Gly Ser Gly Leu Asp Ser Ser Pro Phe Leu Ser
                       125                     130                     135
Glu Ala Asn Ala Glu Arg Ile Val Gln Thr Leu Cys Thr Val Arg
                       140                     145                     150
Gly Ala Ala Leu Lys Val Gly Gln Met Leu Ser Ile Gln Asp Asn
                       155                     160                     165
Ser Phe Ile Ser Pro Gln Leu Gln His Ile Phe Glu Arg Val Arg
                       170                     175                     180
Gln Ser Ala Asp Phe Met Pro Arg Trp Gln Met Leu Arg Val Leu
                       185                     190                     195
Glu Glu Glu Leu Gly Arg Asp Trp Gln Ala Lys Val Ala Ser Leu
                       200                     205                     210
Glu Glu Val Pro Phe Ala Ala Ala Ser Ile Gly Gln Val His Gln
                       215                     220                     225
Gly Leu Leu Arg Asp Gly Thr Glu Val Ala Val Lys Ile Gln Tyr
                       230                     235                     240
Pro Gly Ile Ala Gln Ser Ile Gln Ser Asp Val Gln Asn Leu Leu
                       245                     250                     255
Ala Val Leu Lys Met Ser Ala Ala Leu Pro Ala Gly Leu Phe Ala
                       260                     265                     270
Glu Gln Ser Leu Gln Ala Leu Gln Gln Glu Leu Ala Trp Glu Cys
                       275                     280                     285
Asp Tyr Arg Arg Glu Ala Ala Cys Ala Gln Asn Phe Arg Gln Leu
                       290                     295                     300
Leu Ala Asn Asp Pro Phe Phe Arg Val Pro Ala Val Val Lys Glu
                       305                     310                     315
Leu Cys Thr Thr Arg Val Leu Gly Met Glu Leu Ala Gly Gly Val
                       320                     325                     330
Pro Leu Asp Gln Cys Gln Gly Leu Ser Gln Asp Leu Arg Asn Gln
                       335                     340                     345
Ile Cys Phe Gln Leu Leu Thr Leu Cys Leu Arg Glu Leu Phe Glu
                       350                     355                     360
Phe Arg Phe Met Gln Thr Asp Pro Asn Trp Ala Asn Phe Leu Tyr
                       365                     370                     375
Asp Ala Ser Ser His Gln Val Thr Leu Leu Asp Phe Gly Ala Ser
                       380                     385                     390
Arg Glu Phe Gly Thr Glu Phe Thr Asp His Tyr Ile Glu Val Val
                       395                     400                     405
Lys Ala Ala Ala Asp Gly Asp Arg Asp Cys Val Leu Gln Lys Ser
                       410                     415                     420
Arg Asp Leu Lys Phe Leu Thr Gly Phe Glu Thr Lys Ala Phe Ser
                       425                     430                     435
Asp Ala His Val Glu Ala Val Met Ile Leu Gly Glu Pro Phe Ala
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269

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                    440                    445                    450
Thr Gln Gly Pro Tyr Asp Phe Gly Ser Gly Glu Thr Ala Arg Arg
                    455                    460                    465
Ile Gln Asp Leu Ile Pro Val Leu Leu Arg His Arg Leu Cys Pro
                    470                    475                    480
Pro Pro Glu Glu Thr Tyr Ala Leu His Arg Lys Leu Ala Gly Ala
                    485                    490                    495
Phe Leu Ala Cys Ala His Leu Arg Ala His Ile Ala Cys Arg Asp
                    500                    505                    510
Leu Phe Gln Asp Thr Tyr His Arg Tyr Trp Ala Ser Arg Gln Pro
                    515                    520                    525
Asp Ala Ala Thr Ala Gly Ser Leu Pro Thr Lys Gly Asp Ser Trp
                    530                    535                    540
Val Asp Pro Ser


<210> 271
<211> 442
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<223> Incyte ID No: 2757583CB1


<400> 271
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gctcctgcgc cgctggtgtc tcctgcacct gcgctggttc ctgcaagtgc aaagagtgca 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc cgtgggctgt agcaagtgtg 240
cccagggctg tgtttgcaaa ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg 300
acaacctttc tcccagatgt aaacagagag acatgtacaa acctggattt tttttttata 360
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ctttagacct gaaaaaaaaa aa                                          442


<210> 272
<211> 61
<212> PRT
<213> Homo sapiens


<220>
<221> misc_feature
<223> Incyte ID No: 2757583CD1


<400> 272
Met Asp Pro Asn Cys Ser Cys Ala Ala Gly Val Ser Cys Thr Cys
  1               5                  10                  15
Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
                 20                  25                  30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala
                 35                  40                  45
Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
                 50                  55                  60
Asp


<210> 273
<211> 1077
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198317.1

<220>
<221> unsure
<222> 935, 943, 945, 947, 951
<223> a, t, c, g, or other

<400> 273
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gtataggtgg gctttggggg ctgggcagcc agttttcact taattttcc tgatttacat 120
attagaaaat cctgggaagg gctctttagg gtccctcacc ccccaccccc ttggatcttt 180
ggtgcaacaa atactactga tgaaagcacc agtgtttgtg acaaacatct ccctatccca 240
agaaaatcgt gcctggttgc aggggacgct tgacagcact tggccccgtg acagcccctc 300
tccgggccag gtccctgcca cagtcttcgg acatcactgc agtgtcttca acgtggcttt 360
ggccgccccc tcgtccggcc cacgctgatc actgcaaatt caccccaccc cacctcacgc 420
agatttcaat gtaatgaacc aacacaggat gttttaaact attagggaaa cattgtttcc 480
ataatattct caccagaaac agatgtggaa gtggcagccc gtgtttacag tttctcattt 540
tttttgtccc cctttaaatt accattatgg gtaaatcatt gtttcccttt aaaacaaaaa 600
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actgggagtt aggcactccc agcctcactg aggggcattt ttgcctttga gaagtcctcc 720
caggtatcct ggtatagcac aatgtggcaa tccgtagtgg gaatgaagat taaacaggag 780
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tacccatcgt tctcgtgtaa caaaacgtgt aaaanaaaaa aangnanaag nagaaacaaa 960
acaaaaaaac taagttgacc agtctgtttt cactggtatg agagcattaa ccgcactaga 1020
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<210> 274
<211> 3282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1508254CB1

<220>
<221> unsure
<222> 3130
<223> a, t, c, g, or other

<400> 274
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gcggcaggat gattgcctcg catctgcttg cctacttctt cacggagctc aaccatgacc 180
aagtgcagaa ggttgaccag tatctctacc acatgcgcct ctctgatgag accctcttgg 240
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ctgcagcagt gaagatgctg cccaccttg tgaggtccac tccagatggg acagaacacg 360
gagagttcct ggctctggat cttggaggga ccaacttccg tgtgctttgg gtgaaagtaa 420
cggacaatgg gctccagaag gtggagatgg agaatcagat ctatgccatc cctgaggaca 480
tcatgcgagg cagtggcacc cagctgtttg accacattgc cgaatgcctg gctaacttca 540
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<210> 275
<211> 917
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1508254CD1

<400> 275

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Leu Ser Asp Glu Thr Leu Leu Glu Ile Ser Lys Arg Phe Arg Lys
            35                  40                  45
Glu Met Glu Lys Gly Leu Gly Ala Thr Thr His Pro Thr Ala Ala
            50                  55                  60
Val Lys Met Leu Pro Thr Phe Val Arg Ser Thr Pro Asp Gly Thr
65                  70                  75
Glu His Gly Glu Phe Leu Ala Leu Asp Leu Gly Gly Thr Asn Phe
            80                  85                  90
Arg Val Leu Trp Val Lys Val Thr Asp Asn Gly Leu Gln Lys Val
            95                  100                 105
Glu Met Glu Asn Gln Ile Tyr Ala Ile Pro Glu Asp Ile Met Arg
        110                 115                 120
Gly Ser Gly Thr Gln Leu Phe Asp His Ile Ala Glu Cys Leu Ala
        125                 130                 135
Asn Phe Met Asp Lys Leu Gln Ile Lys Asp Lys Lys Leu Pro Leu
        140                 145                 150
Gly Phe Thr Phe Ser Phe Pro Cys His Gln Thr Lys Leu Asp Glu
        155                 160                 165
Ser Phe Leu Val Ser Trp Thr Lys Gly Phe Lys Ser Ser Gly Val
        170                 175                 180
Glu Gly Arg Asp Val Val Ala Leu Ile Arg Lys Ala Ile Gln Arg
        185                 190                 195
Arg Gly Asp Phe Asp Ile Asp Ile Val Ala Val Val Asn Asp Thr
        200                 205                 210
Val Gly Thr Met Met Thr Cys Gly Tyr Asp Asp His Asn Cys Glu
        215                 220                 225
Ile Gly Leu Ile Val Gly Thr Gly Ser Asn Ala Cys Tyr Met Glu
        230                 235                 240
Glu Met Arg His Ile Asp Met Val Glu Gly Asp Glu Gly Arg Met
        245                 250                 255
Cys Ile Asn Met Glu Trp Gly Ala Phe Gly Asp Asp Gly Ser Leu
        260                 265                 270
Asn Asp Ile Arg Thr Glu Phe Asp Gln Glu Ile Asp Met Gly Ser
        275                 280                 285
Leu Asn Pro Gly Lys Gln Leu Phe Glu Lys Met Ile Ser Gly Met
        290                 295                 300
Tyr Met Gly Glu Leu Val Arg Leu Ile Leu Val Lys Met Ala Lys
        305                 310                 315
Glu Glu Leu Leu Phe Gly Gly Lys Leu Ser Pro Glu Leu Leu Asn
        320                 325                 330
Thr Gly Arg Phe Glu Thr Lys Asp Ile Ser Asp Ile Glu Gly Glu
        335                 340                 345
Lys Asp Gly Ile Arg Lys Ala Arg Glu Val Leu Met Arg Leu Gly
        350                 355                 360
Leu Asp Pro Thr Gln Glu Asp Cys Val Ala Thr His Arg Ile Cys
        365                 370                 375
Gln Ile Val Ser Thr Arg Ser Ala Ser Leu Cys Ala Ala Thr Leu
        380                 385                 390
Ala Ala Val Leu Gln Arg Ile Lys Glu Asn Lys Gly Glu Glu Arg
        395                 400                 405
Leu Arg Ser Thr Ile Gly Val Asp Gly Ser Val Tyr Lys Lys His
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273

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Pro His Phe Ala Lys Arg Leu His Lys Thr Val Arg Arg Leu Val
                425                  430                  435
Pro Gly Cys Asp Val Arg Phe Leu Arg Ser Glu Asp Gly Ser Gly
                440                  445                  450
Lys Gly Ala Ala Met Val Thr Ala Val Ala Tyr Arg Leu Ala Asp
                455                  460                  465
Gln His Arg Ala Arg Gln Lys Thr Leu Glu His Leu Gln Leu Ser
                470                  475                  480
His Asp Gln Leu Leu Glu Val Lys Arg Arg Met Lys Val Glu Met
                485                  490                  495
Glu Arg Gly Leu Ser Lys Glu Thr His Ala Ser Ala Pro Val Lys
                500                  505                  510
Met Leu Pro Thr Tyr Val Cys Ala Thr Pro Asp Gly Thr Glu Lys
                515                  520                  525
Gly Asp Phe Leu Ala Leu Asp Leu Gly Gly Thr Asn Phe Arg Val
                530                  535                  540
Leu Leu Val Arg Val Arg Asn Gly Lys Trp Gly Gly Val Glu Met
                545                  550                  555
His Asn Lys Ile Tyr Ala Ile Pro Gln Glu Val Met His Gly Thr
                560                  565                  570
Gly Asp Glu Leu Phe Asp His Ile Val Gln Cys Ile Ala Asp Phe
                575                  580                  585
Leu Glu Tyr Met Gly Met Lys Gly Val Ser Leu Pro Leu Gly Phe
                590                  595                  600
Thr Phe Ser Phe Pro Cys Gln Gln Asn Ser Leu Asp Glu Ser Ile
                605                  610                  615
Leu Leu Lys Trp Thr Lys Gly Phe Lys Ala Ser Gly Cys Glu Gly
                620                  625                  630
Glu Asp Val Val Thr Leu Leu Lys Glu Ala Ile His Arg Arg Glu
                635                  640                  645
Glu Phe Asp Leu Asp Val Val Ala Val Val Asn Asp Thr Val Gly
                650                  655                  660
Thr Met Met Thr Cys Gly Phe Glu Asp Pro His Cys Glu Val Gly
                665                  670                  675
Leu Ile Val Gly Thr Gly Ser Asn Ala Cys Tyr Met Glu Glu Met
                680                  685                  690
Arg Asn Val Glu Leu Val Glu Gly Glu Glu Gly Arg Met Cys Val
                695                  700                  705
Asn Met Glu Trp Gly Ala Phe Gly Asp Asn Gly Cys Leu Asp Asp
                710                  715                  720
Phe Arg Thr Glu Phe Asp Val Ala Val Asp Glu Leu Ser Leu Asn
                725                  730                  735
Pro Gly Lys Gln Arg Phe Glu Lys Met Ile Ser Gly Met Tyr Leu
                740                  745                  750
Gly Glu Ile Val Arg Asn Ile Leu Ile Asp Phe Thr Lys Arg Gly
                755                  760                  765
Leu Leu Phe Arg Gly Arg Ile Ser Glu Arg Leu Lys Thr Arg Gly
                770                  775                  780
Ile Phe Glu Thr Lys Phe Leu Ser Gln Ile Glu Ser Asp Cys Leu
                785                  790                  795
Ala Leu Leu Gln Val Arg Ala Ile Leu Gln His Leu Gly Leu Glu
                800                  805                  810
Ser Thr Cys Asp Asp Ser Ile Ile Val Lys Glu Val Cys Thr Val
                815                  820                  825
Val Ala Arg Arg Ala Ala Gln Leu Cys Gly Ala Gly Met Ala Ala
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274

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                    830                    835                    840
Val Val Asp Arg Ile Arg Glu Asn Arg Gly Leu Asp Ala Leu Lys
                845                    850                    855
Val Thr Val Gly Val Asp Gly Thr Leu Tyr Lys Leu His Pro His
            860                    865                    870
Phe Ala Lys Val Met His Glu Thr Val Lys Asp Leu Ala Pro Lys
        875                    880                    885
Cys Asp Val Ser Phe Leu Gln Ser Glu Asp Gly Ser Gly Lys Gly
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Ala Ala Leu Ile Thr Ala Val Ala Cys Arg Ile Arg Glu Ala Gly
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Gln Arg
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<210> 276
<211> 4350
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> 1508, 3344-3346, 3348, 3365, 3368, 3371-3372
<223> a, t, c, g, or other

<400> 276

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gcccagctgc caggaccacc ccaggacaag ttagagcact gtttagctcc tttgtctgtg 240
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gcttcaaatg ttaccgtcta gttagatttt tatttaaaat atgaaaaact gcttttccca 360
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cactttgcct ctcttctccc cctgccccc accctgctcc cacatctggg ggcccatggg 600
ccaggagtgg ataagcctgc attaatacaa cctttctcca ttcactttct atttacaaat 660
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<210> 277
<211> 3436
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2457215CB1

<400> 277

276

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277

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<211> 707
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2457215CD1

<400> 278
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                20   25   30
Phe Arg Ser Pro Pro Pro Gly Met Gly Leu Asn Gln Asn Arg Gly
                35   40   45
Pro Met Gly Pro Gly Pro Gly Gln Ser Gly Pro Lys Pro Pro Ile
                50   55   60
Pro Pro Pro Pro Pro His Gln Gln Gln Gln Pro Pro Pro Gln
            65   70   75
Gln Pro Pro Pro Gln Gln Pro Pro Pro His Gln Pro Pro Pro His
            80   85   90
Pro Gln Pro His Gln Gln Gln Gln Pro Pro Pro Pro Gln Asp
            95   100   105
Ser Ser Lys Pro Val Val Ala Gln Gly Pro Gly Pro Ala Pro Gly
            110   115   120
Val Gly Ser Ala Pro Pro Ala Ser Ser Ala Pro Pro Ala Thr
            125   130   135
Pro Pro Thr Ser Gly Ala Pro Pro Gly Ser Gly Pro Gly Pro Thr
            140   145   150
Pro Thr Pro Pro Pro Ala Val Thr Ser Ala Pro Pro Gly Ala Pro
            155   160   165
Pro Pro Thr Pro Pro Ser Ser Gly Val Pro Thr Thr Pro Pro Gln
            170   175   180
Ala Gly Gly Pro Pro Pro Pro Ala Ala Val Pro Gly Pro Gly
            185   190   195
Pro Gly Pro Lys Gln Gly Pro Gly Pro Gly Gly Pro Lys Gly Gly
            200   205   210
Lys Met Pro Gly Gly Pro Lys Pro Gly Gly Gly Pro Gly Leu Ser
            215   220   225
Thr Pro Gly Gly His Pro Lys Pro Pro His Arg Gly Gly Gly Glu
            230   235   240
Pro Arg Gly Gly Arg Gln His His Pro Pro Tyr His Gln Gln His
            245   250   255
His Gln Gly Pro Pro Pro Gly Gly Pro Gly Gly Arg Ser Glu Glu
            260   265   270
Lys Ile Ser Asp Ser Glu Gly Phe Lys Ala Asn Leu Ser Leu Leu
            275   280   285
Arg Arg Pro Gly Glu Lys Thr Tyr Thr Gln Arg Cys Arg Leu Phe
            290   295   300
Val Gly Asn Leu Pro Ala Asp Ile Thr Glu Asp Glu Phe Lys Arg
            305   310   315
Leu Phe Ala Lys Tyr Gly Glu Pro Gly Glu Val Phe Ile Asn Lys

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Gln Leu Arg Val Arg Phe Ala Thr His Ala Ala Ala Leu Ser Val
                  365                 370                 375
Arg Asn Leu Ser Pro Tyr Val Ser Asn Glu Leu Leu Glu Glu Ala
                  380                 385                 390
Phe Ser Gln Phe Gly Pro Ile Glu Arg Ala Val Val Ile Val Asp
                  395                 400                 405
Asp Arg Gly Arg Ser Thr Gly Lys Gly Ile Val Glu Phe Ala Ser
                  410                 415                 420
Lys Pro Ala Ala Arg Lys Ala Phe Glu Arg Cys Ser Glu Gly Val
                  425                 430                 435
Phe Leu Leu Thr Thr Thr Pro Arg Pro Val Ile Val Glu Pro Leu
                  440                 445                 450
Glu Gln Leu Asp Asp Glu Asp Gly Leu Pro Glu Lys Leu Ala Gln
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Ala Tyr His Glu His Gln Ala Asn Leu Leu Arg Gln Asp Leu Met
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Glu Glu Gln Met Arg Arg Gln Arg Glu Glu Ser Tyr Ser Arg Met
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Gly Tyr Met Asp Pro Arg Glu Arg Asp Met Arg Met Gly Gly Gly
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Gly Ala Met Asn Met Gly Asp Pro Tyr Gly Ser Gly Gly Gln Lys
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Phe Pro Pro Leu Gly Gly Gly Gly Gly Ile Gly Tyr Glu Ala Asn
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Pro Gly Val Pro Pro Ala Thr Met Ser Gly Ser Met Met Gly Ser
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Asp Met Arg Thr Glu Arg Phe Gly Gln Gly Gly Ala Gly Pro Val
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PA-0035 US

<213> Homo sapiens

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280

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<213> Homo sapiens

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<222> 1586
<223> a, t, c, g, or other

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<213> Homo sapiens

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<220>

<221> unsure
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<213> Homo sapiens

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283

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<210> 283
<211> 1205
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1040190.3

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aattgctact gctgcctctg tcactcctgg tgaccagcat tcaaggtcac ttggtacata 180
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284

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<211> 1393
<212> DNA
<213> Homo sapiens

<220>
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<211> 247
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<212> PRT
<213> Homo sapiens

<220>
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Asp Ala Thr Thr Val Thr Glu Cys Leu His Thr Phe Cys Arg Ser
                35   40   45
Cys Leu Val Lys Tyr Leu Glu Glu Asn Asn Thr Cys Pro Thr Cys
                50   55   60
Arg Ile Val Ile His Gln Ser His Pro Leu Gln Tyr Ile Gly His
                65   70   75
Asp Arg Thr Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu
                80   85   90
Gln Glu Ala Glu Met Arg Lys Gln Arg Glu Phe Tyr His Lys Leu
                95   100   105
Gly Met Glu Val Pro Gly Asp Ile Lys Gly Glu Thr Cys Ser Ala
                110   115   120
Lys Gln His Leu Asp Ser His Arg Asn Gly Glu Thr Lys Ala Asp
                125   130   135
Asp Ser Ser Asn Lys Glu Ala Ala Glu Glu Lys Pro Glu Glu Asp
                140   145   150
Asn Asp Tyr His Arg Ser Asp Glu Gln Val Ser Ile Cys Leu Glu
                155   160   165
Cys Asn Ser Ser Lys Leu Arg Gly Leu Lys Arg Lys Trp Ile Arg
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Cys Ser Ala Gln Ala Thr Val Leu His Leu Lys Lys Phe Ile Ala
                185   190   195
Lys Lys Leu Asn Leu Ser Ser Phe Asn Glu Leu Asp Ile Leu Cys
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Asn Glu Glu Ile Leu Gly Lys Asp His Thr Leu Lys Phe Val Val
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<223> a, t, c, g, or other

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tccaaagctt tttattattc caggtcctct gaaacctgga tataaacgg attcttttca 540
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287

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<220>
<221> unsure
<222> 271, 283
<223> a, t, c, g, or other

<400> 287

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<210> 288
<211> 11928

288

<212> DNA
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<223> a, t, c, g, or other

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tctatttggc tttaggaaaa aaacaagatt tccttttcag catttgttct gttttggcca 3540
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ccagtctgcc cagccttcca tctttacctt tggaaatcga gacctgaatg ggtcccattc 3660
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gatcctaatg aaatactaga caagagagaa aatggcatga gtggacagtt ctccctcgtc 3840
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tgaagggctt caccacatga gaaccttcaa tagcaacgtt tacatcactg gggagtttat 3960
gagaccctga gagagggcaa gagagtttac aactgaagag aaagttccta tttattctca 4020
aatgccctga ctaaactgct caaaagcagt ttatattttc aaaccaatgt catgtcctca 4080
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gaaattcttg agctttatga aacatcaaac cacctcccac cactaggatg gagctgtaca 4500
tcttcttttt ggtgtcgtca gatgaacagc agtctatgct atggaggatg gctttatcca 4560
ggcccagggc tttcccttca aacagcgaga tggcagtctt cctggacatc agtgcagtga 4620
gggcctcctc ggaatcgttg ccggccatca ggccatctcc ctgtgcagac cccaaatcta 4680
cctcctggga atggagtctt tctggaagat cagaggactg gccacgaaga tccccttcaa 4740
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tgctctgtgt ggccagcagg taatgttcat cgtgaggatc ctcaggatcg ccctgagatc 4860
tgtgctgcaa agtcgtcatt ttctgtccaa caattccaaa agttgcgggg taaaacaaag 4920
ccattggagc ctgcagtttt tcatctccta atcgaaactg gtaaagcagg gcaggagaat 4980
caggatgtcg aatctgaaac tcatggtcct gaagcccaga gatgtcctga ttccaggaaa 5040
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ttatt                                                                 5105
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<210> 294
<211> 2337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 400253.5
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PA-0035 US

<220>
<221> unsure
<222> 1924, 2298, 2310
<223> a, t, c, g, or other

<400> 294
ctccgggtgg gcgtcggggc cgctagctgc ggggaagggc cgcggcggcg gcgactgaca 60
gctgggcccc ggcccctgcc tcacaattga aaaaattaaa gctaacatgc ttcattaatt 120
ctggaaatat ttactgaaac tctgttaaat tcaaaattgt atgtttctgt aggctaccat 180
tttaaagttc tgatgaccaa ctgtttatta gaatactaaa aatgtggcca agcggcccgg 240
cgatgtcgct cgtgctgcta agcctggccg cgctgtgcag gagcgccgta ccccgagagc 300
cgaccgttca atgtggctct gaaactgggc catctccaga gtggatgcta caacatgatc 360
taatcccggg agacttgagg gacctccgag tagaacctgt tacaactagt gttgcaacag 420
gggactattc aattttgatg aatgtaagct gggtactccg ggcagatgcc agcatccgct 480
tgttgaaggc caccaagatt tgtgtgacgg gcaaaagcaa cttccagtcc tacagctgtg 540
tgaggtgcaa ttacacagag gccttccaga ctcagaccag accctctggt ggtaaatgga 600
cattttccta tatcggcttc cctgtagagc tgaacacagt ctatttcatt ggggcccata 660
atattcctaa tgcaaatatg aatgaagatg gcccttccat gtctgtgaat ttcacctcac 720
caggctgcct agaccacata atgaaatata aaaaaaagtg tgtcaaggcc ggaagcctgt 780
gggatccgaa catcactgct tgtaagaaga atgaggagac agtagaagtg aacttcacaa 840
ccactcccct gggaaacaga tacatggctc ttatccaaca cagcactatc atcgggtttt 900
ctcaggtgtt tgagccacac cagaagaaac aaacgcgagc ttcagtggtg attccagtga 960
ctggggatag tgaaggtgct acggtgcagg taaagttcag tgagctgctc tggggaggga 1020
agggacatag aagactgttc catcattcat tgcttttaag gatgagttct ctcttgtcaa 1080
atgcacttct gccagcagac accagttaag tggcgttcat ggggggctctt tcgctgcagc 1140
ctccaccgtg ctgaggtcag gaggccgacg tggcagttgt ggtccctttt gcttgtatta 1200
atggctgctg accttccaaa gcacttttta ttttcatttt ctgtcacaga cactcaggga 1260
tagcagtacc attttacttc cgcaagcctt taactgcaag atgaagctgc aaagggtttg 1320
aaatgggaag gtttgagttc caggcagcgt atgaactctg gagaggggct gccagtcctc 1380
tctgggccgc agcggaccca gctggaacac aggaagttgg agcagtaggt gctccttcac 1440
ctctcagtat gtctctttca actctagttt ttgaggtggg gacacaggag gtccagtggg 1500
acacagccac tccccaaaga gtaaggagct tccatgcttc attccctggc ataaaaagtg 1560
ctcaaacaca ccagaggggg caggcaccag ccagggtatg atggctacta ccctttttctg 1620
ggagaaccat agacttccct tactacaggg acttgcatgt cctaaagcac tggctgaagg 1680
aagccaagag gatcactgct gctcctttt tctagaggaa atgtttgtct acgtggtaag 1740
atatgaccta gccctttttag gtaagcgaac tggtatgtta gtaacgtgta caaagtttag 1800
gttcagaccc cgggagtctt gggcacgtgg gtctcgggtc actggttttg actttagggc 1860
tttgttacag atgtgtgacc aagggggaaaa tgtgcatgac aacactagag gtatgggcga 1920
cagnataaga agggaagttt tggctgaagt aggagtcttg gtgagatttt gctctgatgc 1980
atggtgtgaa cttttctgagc ctcttgtttt tcctcagctg actccatatt ttcctacttg 2040
tggcagcgac tgcatccgac ataaaggaac agttgtgctc tgcccacaaa caggcgtccc 2100
tttccctctg gataacaaca aaagcaagcc gggaggtggc tgcctctcct cctgctgtct 2160
ctgctggtgg ccacatgggt gctggtggca gggatctatc taatgtggag gcacgaaagg 2220
atcaagaaga cttcctttttc taccaccaca ctactgccccc ccattaaggt tcttgtggtt 2280
tacccatctg aaatatgntt ccatcacacn atttgttact tccattgaat ttcttca   2337

<210> 295
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 030882CB1

<400> 295

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tcagcctcca aaggagccag cgtctcccca gttcctgaaa tcctgggtgt tgcctgccag 60
tcgccatgag aacttcctac cttctgctgt ttactctctg cttactttg tctgagatgg 120
cctcaggtgg taactttctc acaggccttg gccacagatc tgatcattac aattgcgtca 180
gcagtggagg gcaatgtctc tattctgcct gcccgatctt taccaaaatt caaggcacct 240
gttacagagg gaaggccaag tgctgcaagt gagctgagag tgaccagaag aaatgacgca 300
gaagtgaaat gaactttta taagcattct tttaataaag gaaaattgct tttgaagtat 360
aaaagaaaaa aaaaagg                                                 377
```

<210> 296
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 030882CD1

<400> 296

```
Met Arg Thr Ser Tyr Leu Leu Leu Phe Thr Leu Cys Leu Leu Leu
1               5                  10                  15
Ser Glu Met Ala Ser Gly Gly Asn Phe Leu Thr Gly Leu Gly His
            20                  25                  30
Arg Ser Asp His Tyr Asn Cys Val Ser Ser Gly Gly Gln Cys Leu
        35                  40                  45
Tyr Ser Ala Cys Pro Ile Phe Thr Lys Ile Gln Gly Thr Cys Tyr
    50                  55                  60
Arg Gly Lys Ala Lys Cys Cys Lys
                65
```

<210> 297
<211> 1115
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 898779CB1

<400> 297

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ttagccaggt gtgttggcac attcctgtaa tcccagctac tcaggaggct gaaacaggag 60
aatcgcttga acccgggagg tggaggttgc agtgagccga gatcacacca ctgcactcca 120
gcctgggcga cagagcaaga cttcatctca aaaaaaaaaa aaaagggcgg cgctcctcgc 180
cagcagccgt ccggagccag ccaacgagcg gaaaatggca gacaattttt cgctccatga 240
tgcgttatct gggtctggaa acccaaaccc tcaaggatgg cctggcgcat gggggaacca 300
gcctgctggg gcaggggggct acccaggggc ttcctatcct ggggcctacc ccgggcaggc 360
acccccaggg gcttatcctg gacaggcacc tccaggcgcc taccatggag cacctggagc 420
ttatcccgga gcacctgcac ctggagtcta cccagggcca cccagcggcc ctggggccta 480
cccatcttct ggacagccaa gtgcccccgg agcctaccct gccactggcc cctatggcgc 540
ccctgctggg ccactgattg tgccttataa cctgcctttg cctggggggag tggtgcctcg 600
catgctgata caattctggg cacggtgaa gcccaatgca aacagaattg ctttagattt 660
ccaaagaggg aatgatgttg ccttccactt taacccacgc ttcaatgaga caacaggag 720
agtcattgtt tgcaatacaa agctggataa taactgggga agggaagaaa gacagtcggt 780
tttcccattt gaaagtggga aaccattcaa aatacaagta ctggttgaac ctgaccactt 840
caaggttgca gtgaatgatg ctcacttgtt gcagtacaat catcgggtta aaaaactcaa 900
tgaaatcagc aaactgggaa tttctggtga catagacctc accagtgctt catataccat 960
gatataatct gaaaggggca gattaaaaaa aaaaaagaa tctaaacctt acatgtgtaa 1020
aggtttcatg ttcactgtga gtgaaaattt ttacattcat caatatccct cttgtaagtc 1080
```

atctacttaa taaatattac agtgaaaaaa aaaaa   1115

<210> 298
<211> 250
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 898779CD1

<400> 298
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Met Ala Asp Asn Phe Ser Leu His Asp Ala Leu Ser Gly Ser Gly
 1               5                  10                  15
Asn Pro Asn Pro Gln Gly Trp Pro Gly Ala Trp Gly Asn Gln Pro
                20                  25                  30
Ala Gly Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr
                35                  40                  45
Pro Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro
                50                  55                  60
Gly Ala Tyr His Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala
                65                  70                  75
Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro
                80                  85                  90
Ser Ser Gly Gln Pro Ser Ala Pro Gly Ala Tyr Pro Ala Thr Gly
                95                  100                 105
Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro Tyr Asn Leu
                110                 115                 120
Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr Ile Leu
                125                 130                 135
Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe Gln
                140                 145                 150
Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
                155                 160                 165
Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn
                170                 175                 180
Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly
                185                 190                 195
Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys
                200                 205                 210
Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val
                215                 220                 225
Lys Lys Leu Asn Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile
                230                 235                 240
Asp Leu Thr Ser Ala Ser Tyr Thr Met Ile
                245                 250
```
<210> 299
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3727408CB1

<400> 299

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tgggaacaca aacttgctgg cgggaagagc ccggaaagaa acctgtggat ctcccttcga 60
gatcatccaa agagaagaaa ggtgacctca cattcgtgcc ccttagcagc actctgcaga 120
aatgcctcct cagctgcaaa acggcctgaa cctctcggcc aaagttgtcc agggaagcct 180
ggacagccta ccccaggcag tgagggagtt tctcgagaat aacgctgagc tgtgtcagcc 240
tgatcacatc cacatctgtg acggctctga ggaggagaat gggcggcttc tgggccagat 300
ggaggaagag ggcatcctca ggcggctgaa gaagtatgac aactgctggt tggctctcac 360
tgaccccagg gatgtggcca ggatcgaaag caagacggtt atcgtcaccc aagagcaaag 420
agacacagtg gcccttcccc agaacaggcc ttagccagct tcgttcgttg gatttcaaag 480
gaggattttt agaagcgtcc aatgccaggt tccaggatgc attaaagtc      529
```

<210> 300
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3727408CD1

<400> 300
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Met Pro Pro Gln Leu Gln Asn Gly Leu Asn Leu Ser Ala Lys Val
 1               5                   10                  15
Val Gln Gly Ser Leu Asp Ser Leu Pro Gln Ala Val Arg Glu Phe
                20                  25                  30
Leu Glu Asn Asn Ala Glu Leu Cys Gln Pro Asp His Ile His Ile
                35                  40                  45
Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
                50                  55                  60
Glu Glu Glu Gly Ile Leu Arg Arg Leu Lys Lys Tyr Asp Asn Cys
                65                  70                  75
Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
                80                  85                  90
Lys Thr Val Ile Val Thr Gln Glu Gln Arg Asp Thr Val Ala Leu
                95                  100                 105
Pro Gln Asn Arg Pro
                110
```
<210> 301
<211> 903
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 984236.1c

<400> 301
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cggatggtga ccacagttct ctgatccagg tgtatgaagc ctttatacaa agtggagcag 60
atgaggcttg gtgccaggct cgaggtctga attgggcagc attgtgccaa gcccataaac 120
ttcggggaga actcctagaa ctcatgcaac gaattgaact tcccttgtcc ctaccagcct 180
ttggctctga gcagaatcgc agagaccttc agaaagcact ggtgtcagga tactttctca 240
aggtggccag agacacagac gggactggaa attaccttct cctaacccat aagcatgtgg 300
cccagctctc ctcatactgc tgctaccgaa gccgcagagc tcctgccaga cccccaccat 360
gggtgctcta ccacaatttc accatatcca agacaactg cctttccatt gtttctgaga 420
ttcaaccaca gatgctggtg gaattggccc ctccatactt cctgagtaac ttgcctccca 480
gtgagagcag agaccttctg aaccagctaa gggaaggaat ggcagattct acagcaggga 540
gcaaatcatc ctcagcccag gagttcagag atccctgtgt cctgcagtga cctgcctgcc 600
```

299

```
tatggaatgg agctgggttc atctcatcac attagattat ccctcagggt gacaccaaag 660
cacccagaca gatttagaag cccaaagttt agggtcaaat gtaaaccctg gaacctgagt 720
cccaagaaat ggtagactgg gaatggaaag aatggggtaa accacagtct acatagggaa 780
ggactctttc cttagccttc tcttattgat tggagaggga ctgacatgct cctcattctc 840
ttaactttgc caaacccatt cttgtactcc cttgtgatct ataaaagatt tttctatgat 900
gcc                                                               903
```

<210> 302
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 984236.2c

<220>
<221> unsure
<222> 422
<223> a, t, c, g, or other

<400> 302
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cccctggctc tgcaatctgt ctccttttta gtagtaacac cagggagctc agattctcct 60
cacacaccct gggttgtggc aatggtggag cttctagttc taagaaggac ttaggataca 120
ggcagaggca ggatcctgag gggaaaaaga cctgggaaag aagaccactg tagatttctc 180
agggcttgca tgttggtgac tcttgggttt tttatttcag tgaggcaaa ggctcttacc 240
tggtgggaac cctcttgctc gcaatcgtct tgcctctgcc tgacacttgc tgattggcct 300
caacacttgg aattctgctc ggatcctagg attgtaaacc tgttgcccgt cccccaacca 360
aggccaagac agatcagagt gggccatttc tgtctttact accccaccgc tatctctctc 420
tntcactcac acttcggagc tccagtcctg agtcgatgac atgttggatg aagggaggg 480
agaaggagaa gtcagccagc cagtgagtga ccacaacctt tcgggcatcc atgtcctcat 540
acacagcctg aacggctcgt ccacagtctg ggtgaagggg c              581
```

<210> 303
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 348082.5

<400> 303
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ggcagatgct ggtacttggg ccaaggctgc aatcagtgat tcagccgact gctctttgag 60
tccagatgtt gatccagttc ttgcttttca acgagaagga tttggacgtc agagtatgtc 120
agaaaaacgc acaaagcaat tttcagatgc cagtcaattg gatttcgtta aaacacgaaa 180
atcaaaaagc atggatttag gtatagctga cgagactaaa ctcaatacag tggatgacca 240
gaaagcaggt tctcccagca gagatgtggg tccttccctg ggtctgaaga agtcaagctc 300
gttggagagt ctgcagaccg cagttgccga ggtgactttg aatggggata ttcctttcca 360
tcgtccacgg ccgcggataa tcagaggcag gggatgcaat gagagcttca gagctgccat 420
cgacaaatct tatgataaac ccgcggtaga tgatgatgat gaaggcatgg agaccttgga 480
agaagacaca gaagaaagtt caagatcagg gagagagtct gtatccacag ccagtgatca 540
gccttcccac tctctggaga gacaaatgaa tggaaaccaa gagaaaggtg ataagactga 600
tagaaaaaag gataaaactg gaaaagaaaa gaagaaagat agagataagg agaaggataa 660
aatgaaagcc aagaagggaa tgctgaaggg cttgggagac atgttcagga ttcaagccaa 720
aactcgagaa tttagggaac gacaagctcg agagcgtgac tatgctgaaa ttcaagattt 780
```

```
tcatcggaca tttggctgtg atgatgagtt aatgtatggg ggagtttctt cttatgaagg 840
ttccatggct ctcaacgcta gacctcagag cccacgagaa g                     881
```

<210> 304
<211> 1380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 348082.7

<400> 304
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taaaacctgc gacaggaagg atgaggatgg gacagaagag gataacagtc gtgttgaacc 60
tgttggacat gctgacacgg gtttggagca tatacccaac ttttctctgg atgatatggt 120
aaagctcgta gaagtcccca acgatggagg gcctctggga atccatgtag tgcctttcag 180
tgctcgaggc ggcagaaccc tggggttatt agtaaaacga ttggagaaag gtggtaaagc 240
tgaacatgaa aatctttttc gtgagaatga ttgcattgtc aggattaatg atggcgacct 300
tcgaaataga agatttgaac aagcacaaca tatgtttcgc caagccatgc gtacacccat 360
catttggttc catgtggttc ctgcagcaaa taaagagcag tatgaacaac tatcccaaag 420
tgagaagaac aattactatt caagccgttt tagccctgac agccagtata ttgacaacag 480
gagtgtgaac agtgcagggc ttcacacggt gcagagagca ccccgactga accacccgcc 540
tgagcagata gactctcact caagactacc tcatagcgca cacccctcgg gaaaaccacc 600
atccgctcca gcctcggcac ctcagaatgt atttagtacg actgtaagca gtggttataa 660
caccaaaaaa ataggcaaga ggcttaatat ccagcttaag aaaggtacag aaggtttggg 720
attcagcatc acttccagag atgtaacaat aggtggctca gctccaatct atgtgaaaaa 780
cattctcccc cggggggcgg ccattcagga tggccgactt aaggcaggag acagacttat 840
agaggtaaat ggagtagatt tagtgggcaa atcccaagag gaagttgttt cgctgttgag 900
aagcaccaag atggaaggaa ctgtgagcct tctggtcttt cgccaggaag acgccttcca 960
cccaagggaa ctgaatgcag agccaagcca gatgcagatt ccaaaagaaa cgaaagcaga 1020
agatgaggat attgttctta cacctgatgg caccagggaa tttctgacat ttgaagtccc 1080
acttaatgat tcaggatctg caggccttgg tgtcagtgtc aaaggtaacc ggtcaaaaga 1140
gaaccacgca gatttgggaa tctttgtcaa gtccattatt aatggaggag cagcatctaa 1200
agatggaagg cttcgggtga atgatcaact gatagcagta aatggagaat ccctgttggg 1260
caagacaaac caagatgcca tggaaaccct aagaaggtct atgtctactg aaggcaataa 1320
acgaggaatg atccagctta ttgtgtgcaa ggagaataag caagtgcaat gagctgaagt 1380
```

<210> 305
<211> 1091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1097910.1

<400> 305
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ccggcgctat gaccacaacc accaagaact gcttagccta gtcaacctga atgccttcaa 60
ggacctgaat gagaagttct acagcttcat gcagaagatg gtcaaggagc actacaaaac 120
ctttgagaag ggccacatcc gggacatcac agacagcctg attgagcact gtcaggagaa 180
gcagctggat gagaacgcca atgtccagct gtcagatgag aagatcatta acatcgtctt 240
ggacctcttt ggagctgggt ttgacacagt cacaactgct atctcctgga gcctcatgta 300
tttggtgatg aaccccaggg tacagagaaa gatccaagag gagctagaca cagtgattgg 360
caggtcacgg cggccccggc tctctgacag atcccatctg ccctatatgg aggccttcat 420
cctggagacc ttccgacact cttccttcgt ccccttcacc atcccccaca gcacaacaag 480
agacacaagt ttgaaaggct tttacatccc caagggggcgt tgtgtctttg taaaccagtg 540
```

```
gcagatcaac catgaccaga agctatgggt caacccatct gagttcctac ctgaacggtt 600
tctcacccct gatggtgcta tcgacaaggt gttaagtgag aaggtgatta tctttggcat 660
gggcaagcgg aagtgtatcg gtgagaccgt tgcccgctgg gaggtctttc tcttcctggc 720
tatcctgctg caacgggtgg aattcagcgt gccactgggc gtgaaggtgg acatgacccc 780
catctatggg ctaaccatga agcatgcctg ctgtgagcac ttccaaatgc agctgcgctc 840
ttaggtgctt gagagccctg aggcctagac tctgtctacc tggtctggtt gggcagccag 900
accagcaggc tggcctatgt ggtctaaggt tcagcctgaa actcatagac actgatctgg 960
ctgcagtttt gctatctggg ctgtgggcaa gcctaaggga tcctgcctgc ccctaccctg 1020
gacttgcctc tgcacaccct ccagagacaa caggtaaaac agggccacat agatgctgat 1080
ggagccttcc c                                                    1091
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<210> 306
<211> 3189
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 246841.1

<400> 306

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tttccttctc ccacctcccg tcctataatc tcccacttaa ggtagctgcc ttcatttctt 60
agagggagct gcagaattat tttataaaac taaagaaaga atttcaaggg attctagggg 120
tcattaggat cctcacagat tatttttggt tggggagttg aaacttttta aaggcatata 180
attctagtta cctgtgtctg ttagctttgt gcatttattt tttatttatc cttcttttgg 240
cttttttttc tttgtacccc ttctttttcct ccttgtttgg taggagcttc aaatattctt 300
ttttttttcta tactaaagga tttgtttcca tttgtgtaat tggctgtgta cttttctttt 360
ctaaaaaaag ttttttggtta gggatttggt ttttggtttt gtgtttgttt tttctttcct 420
ctctcagaaa aaaaaatttc atgctttaaa taaaatccaa agacacaccc tttcactgct 480
gatgcagaaa aaagggaaag ggttcttgtt acttgagaat ttgtttctga tttaaacaaa 540
caagacttag tttaataaaa gaaagagaaa aacaaaagat tcccaggttg ttatgtgctt 600
cttctgcaag cagagaggca aatgttaatg acaattccat ataccaaaag acacattttt 660
tacttcaaag ttttgtcctt gtgttaggca gtctgagcag cgagtgatcc agagcgcagc 720
caacaaagca gcagatagca gtgtacagaa agcaaaaaag gaactgtatg tgaggcactt 780
gtttctgtta atatccatat tcctgttaac acacacccctt tctcatgtaa aaagaaaaat 840
aaaatatggt ctgaactttg aaaactttgt gctgctaaaa catagatttt ggagacaaat 900
aaatagatgc tttgctgttt cactttcata gctaaacatc aacagaaacc atctccccctt 960
gcccccaaag tgtgaaatcc ttcttcccctt cgtttttcttc cttatgtttc aaaagggaac 1020
tttgaagact gtgaatacag gttccattgg tcacctttcg ggcttctttc cccagtgctg 1080
aagccactca tcgactttgc aaaagactgg agcattccaa gatctgaaaa tggattttttt 1140
ttcttttttt ctttttttagc cgggactatt ttatttttat gaatttgttt ttagtttaat 1200
gaaatagtag atcctgaaat gttgtacata tttctaacta ggctgatgca cagtgcaaat 1260
tcctttttta attgtttttt ttaagtagaa atactaaaga aagaatacca tctaactatt 1320
cataccagta tccagttgta gcataaggtg tcaaaagcaa gtacgcaaaa catttactgt 1380
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tgtcagtgtt ttgttatgcc atgccttgag ctgtgggtgt ttggcgacaa taaggtggtt 1920
gaatagattg gctgagcaca cttccaccca cctagtgttc tcagaggggt tatgtgattg 1980
tttcaacctg gagtgggttg cacccttaat gctttcctct gcaactaaac cgcccacata 2040
tatgttcatt gaaaaaagta agaataattc tcagcactaa cccagaagta gcaaagcagt 2100
```

302

```
cagtgatggt gaacattaga ggtcaaacat gagttagatg tttgtgggct gacagccatc 2160
gtggctatga ccagtactat ttacaaagca tgaattcact acaatgctca actgtttgtt 2220
tagctttatc tcacttgggg aatttattcc tgtctgctgc attgtaggta gctgggtagg 2280
atatatttcc acttgctttt taaattagtt cttcacctcc attgacactc gttttttggt 2340
tttctcccta tagtgtgggt tggtgctaga caccagtctg acccacagaa tgggagttat 2400
ttcatccatc tttcctccat ccttccaaaa accacatatc tacacaagga aaaatttaat 2460
acatctagga attttttttt taattacaag ctatttaaag agatgaatgt ggccaaagtt 2520
ttacacaatt gaaaataaag taaaacagac ggcatgtgtt taaacctgag tttatcaggc 2580
atggcaggaa gttgcaggag agagaggcag tgacccaagc cagtgcactt gatgttcatg 2640
gacatatatt ttttttaaat aataaattaa aacattttaa atagaagcat aaattgagtt 2700
gtttgttggc gctgagatac tgcccactgt gaaacaaagc tttgactagt tttttgtttg 2760
tttactttct tcaggggggga ggggggcaag tttgggtagg aaagaaagca taaatgaacg 2820
tgaccctgag gtgaagaggt atatgaacag cctttgcaat gtacaaaaag aaaaaaaaac 2880
aaaaaacaac aaaaaaaata gagcaagtga aaccaaaaat gatgttcttg gtgtttttct 2940
ataatgtagt cttgttagct tttttgttac tgtaacaatg ctgatctcga actgtaccaa 3000
aatacatgga gactaacaaa cagaaccaca tggaactttc aaactgaaaa aaaaatttgt 3060
cacaaaaact ttgttgtcat agttaagttg attgtagatg gtaattgaat atactccttt 3120
gaaaatattt catcaagtat gtttcctgct cattgtgata cattaaaaaa aaaatatgag 3180
caaaaacca                                                       3189
```

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<210> 307
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 351241.1

<400> 307
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gctttcctgt attacattac ctcacctctt tggcttttgt gagtagcaga gattaccttg 180
tactgtgaga ggatttttacc ttgatgtgtg tactggcgga tgagagctac aaagttaaag 240
ctgactgagg acagtttaca ggaagcagtc ttcactgttt tgttttttcc acctaggaag 300
ttgtttagga tcctaattct aattcagagg tgcattctac agagtcttct ccattgcctt 360
tcctctcaaa attaatcttg attggcttct ctgggcattt gcgtgaggaa ctgaaactca 420
ttttcataga taaatgagag aatgagtttc ctcagctccc taaagggcat tttgcttctc 480
ccagctgaaa ggctcccctg gattactagg ggctaagtgg gagtgtctag tgggttgacc 540
cccagcaacg tgcagcagcc ctacagggaa tccccaacaa aattagtttt aaaaggcttg 600
tccaagaaat gaatatagga gctggtcatt ccatgctttg agccctcctg gaggtgctag 660
acctctggag acaaaaatga ctcagtggat aacacgctat ggagtcctgc caataaccca 720
gcacacttca acccatccca ctaaacccta ggccttt                        757
```

```
<210> 308
<211> 1079
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2790762CB1

<400> 308
ccggcatgaa gacagactcg cttagtcgcc agtcacttaa gctgagtgca ttgtgatttc 60
caataattga ggcagtggtt ctaaaagctg tctacattaa tgaaagagc aatgtggcca 120
```

```
gcttgactaa gccgccagcg cacagcgcgg caggacgcgc ccgggtctca gcggacttgt 180
gcatgttagc tgtgtagatt tatgtgaggg cttgtaaaac tctggtcttg taaactagtc 240
ttaagcgctt ttaatatgga gacagatgag agccctctc cgctcccgtg tgggcccgca 300
ggagaagcgg tgatggagag ccgagctcgc cccttccaag cgctgccccg tgagcagtct 360
ccaccacctc ccctgcaaac gtccagtggt gcagaggtaa tggacgttgg ctctggtggt 420
gatggacagt ccgaactccc tgctgaggac cccttcaact tctacggagc ttctcttctc 480
tccaaaggat ccttctctaa gggccgcctc ctcatagacc cgaactgtag tggccacagc 540
ccgcgcaccg cccggcacgc acctgcggtc cggaagttct cccctgacct taagttgctt 600
aaggatgtaa agattagcgt gagctttacc gagagctgca ggagtaagga caggaaggtg 660
ctgtacacag gagcagagcg cgacgtgcgg gcggagtgcg gtctgctcct tagccctgtc 720
agtggggacg tgcatgcttg tccctttggc gggagtgttg gtgacggggt aggcataggg 780
ggtgagagtg ctgataagaa ggatgaggag aatgagctgg atcaggaaaa gagagtggag 840
tatgcagtgc tcgatgagtt agaagatttt actgacaatt tggagctaga tgaagaagga 900
gcaggcgggt tcacggctaa agcaatcgtt cagagagaca gagtggatga agaggccttg 960
aatttcccct acgaggtatg ttggcagccc ctcctctaga gggctcttag caaaacccaa 1020
agagagattt gggaattgca gcatcttttg aaagcaggga aattaaaaaa aaaaaaaaa 1079
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<210> 309
<211> 247
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2790762CD1

<400> 309

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Met Glu Thr Asp Glu Ser Pro Ser Pro Leu Pro Cys Gly Pro Ala
1               5                   10                  15
Gly Glu Ala Val Met Glu Ser Arg Ala Arg Pro Phe Gln Ala Leu
                20                  25                  30
Pro Arg Glu Gln Ser Pro Pro Pro Leu Gln Thr Ser Ser Gly
                35                  40                  45
Ala Glu Val Met Asp Val Gly Ser Gly Gly Asp Gly Gln Ser Glu
                50                  55                  60
Leu Pro Ala Glu Asp Pro Phe Asn Phe Tyr Gly Ala Ser Leu Leu
                65                  70                  75
Ser Lys Gly Ser Phe Ser Lys Gly Arg Leu Leu Ile Asp Pro Asn
                80                  85                  90
Cys Ser Gly His Ser Pro Arg Thr Ala Arg His Ala Pro Ala Val
                95                  100                 105
Arg Lys Phe Ser Pro Asp Leu Lys Leu Leu Lys Asp Val Lys Ile
                110                 115                 120
Ser Val Ser Phe Thr Glu Ser Cys Arg Ser Lys Asp Arg Lys Val
                125                 130                 135
Leu Tyr Thr Gly Ala Glu Arg Asp Val Arg Ala Glu Cys Gly Leu
                140                 145                 150
Leu Leu Ser Pro Val Ser Gly Asp Val His Ala Cys Pro Phe Gly
                155                 160                 165
Gly Ser Val Gly Asp Gly Val Gly Ile Gly Gly Glu Ser Ala Asp
                170                 175                 180
Lys Lys Asp Glu Glu Asn Glu Leu Asp Gln Glu Lys Arg Val Glu
                185                 190                 195
Tyr Ala Val Leu Asp Glu Leu Glu Asp Phe Thr Asp Asn Leu Glu
                200                 205                 210
Leu Asp Glu Glu Gly Ala Gly Gly Phe Thr Ala Lys Ala Ile Val
```

```
                        215                 220                 225
Gln Arg Asp Arg Val Asp Glu Glu Ala Leu Asn Phe Pro Tyr Glu
                        230                 235                 240
Val Cys Trp Gln Pro Leu Leu
                        245
```

<210> 310
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2253717CB1

<400> 310
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gctccctgcc ccgcgcccag tcatgaccct gcgcccctca ctcctcccgc tccatctgct 120
gctgctgctg ctgctcagtg cggcggtgtg ccgggctgag gctgggctcg aaaccgaaag 180
tcccgtccgg accctccaag tggagaccct ggtggagccc ccagaaccat gtgccgagcc 240
cgctgctttt ggagacacgc ttcacataca ctacacggga agcttggtag atggacgtat 300
tattgacacc tccctgacca gagaccctct ggttatagaa cttggccaaa agcaggtgat 360
tccaggtctg agcagagtc ttctcgacat gtgtgtggga gagaagcgaa gggcaatcat 420
tccttctcac ttggcctatg aaaacgggg atttccacca tctgtcccag cggatgcagt 480
ggtgcagtat gacgtggagc tgattgcact aatccgagcc aactactggc taaagctggt 540
gaagggcatt ttgcctctgg tagggatggc catggtgcca gccctcctgg cctcattgg 600
gtatcaccta tacagaaagg ccaatagacc caaagtctcc aaaaagaagc tcaaggaaga 660
gaaacgaaac aagagcaaaa agaaataata ataataaat tttaaaaaaa aaa 713
```

<210> 311
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2253717CD1

<400> 311
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Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
1               5                   10                  15
Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu
                20                  25                  30
Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu
                35                  40                  45
Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu
                50                  55                  60
His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp
                65                  70                  75
Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
                80                  85                  90
Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val
                95                  100                 105
Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly
                110                 115                 120
Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln
                125                 130                 135
```

305

```
Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
            140                 145                 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
            155                 160                 165
Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala
            170                 175                 180
Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu Glu Lys Arg
            185                 190                 195
Asn Lys Ser Lys Lys Lys
            200
```

<210> 312
<211> 1093
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2655184CB1

<400> 312
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cgttacagag tcaccatcat gtctcttctc accaccctct gaatctgcat tagccagtca 120
actagccctt tcagcgtcat gtgaccagcg cgccccattc agcttggctg gtgtcgtttc 180
acatgaccca ggctggccag tcgtcaggtt gcaccgccct ttggttcccg agcatgctgt 240
tttctctcag ccttctctcc aaccttaacc aaatcggcag cagccacctc gaccgcccac 300
acattcctgg ccaatcagct cagctgttta tttaccaaat gtcttcacaa caactacagc 360
agcagccttc ggctaacaaa aaagcaggaa aaatccacaa cacccccttc gccaaccaac 420
taaatccaac gcaacatctg gcaaaacctt ttcagcaaat tcttcctggc cgtcagtccg 480
gcagcctcac ctcaccattt ctagcttgtt gaaacccaaa actaatctcc aagaaggaga 540
agcttctctc gcagccggag caggtccctt tctagagata ggagaagaga gagatcgctg 600
tctcgggaga gaaatcacaa gccgtcccga tccttctcta ggtctcgtag tcgatctagg 660
tcaaatgaaa ggaaatagaa gacagtttgc aagagaagtg gtgtacagga aattacttca 720
tttgacagga gtatgtacag aaaattcaag ttttgtttga acttcataa gcttggtgca 780
tttttaagat gttttagctg ttcaaatctg tttgtctctt gaaacagtga cacaaaggtg 840
taattctcta tggtttgaaa tggatcatac gaggcatgta ataccaagaa ttgttacttt 900
acaatgttcc cttaagcaaa attgaatttg ctttgaactt ttagttatgc acagactgat 960
aataaacctc taaacctgcc cagcggaagt gtgttttttt taaatttaaa tacagaacca 1020
ctggcaaaaa ttgaactaag atttactttt ttttccatag ctgggatata ggggggatcc 1080
tctagagtcg acc                                                  1093
```

<210> 313
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2655184CD1

<400> 313
```
Met Ala Cys Phe Ser Phe Phe Leu Cys Phe Leu Val His Leu Leu
  1               5                 10                  15
Ile Lys Met Asn Pro Val Thr Glu Ser Pro Ser Cys Leu Phe Ser
              20                  25                  30
Pro Pro Ser Glu Ser Ala Leu Ala Ser Gln Leu Ala Leu Ser Ala
              35                  40                  45
```

306

```
Ser Cys Asp Gln Arg Ala Pro Phe Ser Leu Ala Gly Val Val Ser
                50                  55                      60
His Asp Pro Gly Trp Pro Val Val Arg Leu His Arg Pro Leu Val
                65                  70                      75
Pro Glu His Ala Val Phe Ser Gln Pro Ser Leu Gln Pro
                80                  85
```

<210> 314
<211> 3026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 363000.9c

<400> 314

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agtgtctttg aaaacaatca aatataatcc ttaatgtttc tttacattgt catcaagtat 60
tagtaacagt gacttctagt gaacacctta atccttaaac cacaggtcta agttcagttt 120
tgtgattcct ttcattttta cactcaaccc tgaatatgga caagaccggt tagtgtgacc 180
tgttatttta ggaattacaa ctttaaaaat tcctaatagc cacaatctaa atgtgcaatt 240
caaagctttt aacaatttcc atgttctaaa gtttctaaga gtcttgaggt tatgctaggg 300
ctcctggtta aagtaactgc caactgggac tgtatgtcac ctaagtcagg ataactccct 360
ggtgaagtta cttttatttc aggttctgta ttatttctct tagccatatt atacccgtaa 420
ctgtcctttt tacagaaacc cttccaactt aagagcctgc aaggaagtca tatactgccc 480
aaaaatgccc acataagttg tccatttata aaaagcaatg taattgacat attgcatggc 540
ttccgtaact tcttagctat cttggcttgt tcctaacagg aacaggttgt aggctatgtg 600
agaatactaa agacaaaatg cccaatgcca gagctctcag taaataaaca ggctgtctga 660
aaagtgtctt tcttgaacat gcttaacttt aaggctgaac cttcctgaca ccaattctcc 720
caagatttgt gtaaaaggtg aaataaaata atttgtttag gaactgtatc ttaatgtatc 780
catttagctt gaactcttaa tgcaatgact tatctttcat atttaagaca gtcaataccg 840
cataatccaa aactatctta agagcatatt taaggaaact aagccacaag actgttgcat 900
tatgatttaa tctaattgca caaaaatttg aaattacaac acctgccatt ttctaagagg 960
aaggttatgc atgcctccat attcaattct gcactgttac atttgaacca tattgtgaac 1020
ttttacatca tgatggatca gcttagaatt cccatgcaac acctcaaatt ataaaatgga 1080
agcaattttt agacctgtgg aaagttttca tgctaaagat aaaagccatt tgttaatggg 1140
caacttactt tgtgtttaag aaccaggttg ctgctatact ttaaaatgtt ggtcactaaa 1200
tattatggac cctgaactgg cttctatgcc taaaaaaaaa aaaatgggt taactatcac 1260
ttaggtgaca tctatatttc cttcacttca gaagactaat ccatagtgcc tctcagctgt 1320
ttcttataaa ataagaatcg tgtaaccaac tgcttcccat gggataagaa caatggtaac 1380
agtgggttca actgactata cacaattatg ctaatatttt attaattcaa aagcactta 1440
caagaaaata taagtatggc ttccaatagg aatgttatac ctggacttgg taccaagctc 1500
acagatttga gtttgcaagg aaaaacaggc tttcaagtta aagaacaatt tgtaaccaaa 1560
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tgcacagtaa ctcaaagttc ggctctacaa tgtacccta aactggcagg acatttttga 1680
aatcacaaat ttgcacataa agaatgtcac gaacagccat gtatccatat acagcaatca 1740
aataaggaac ttatgaccta aagcaaaggt aaactttctt gaacttaac attctatacc 1800
aactaggcaa cctctgccca ggatgagagt tggatttttc aaaaacctct aatttaatag 1860
tgcagcattt cgtttttccct gatggcctgt gtttcacagc agtttttaaa gactgcttgt 1920
tcaactatag ctgcagccta tatcccagct atggaaaaaa aagtaaatct tagttcaatt 1980
tttgccagtt gtttctgtat ttaaatttaa aaaaaaacac acttccgctg ggcaggttta 2040
gaggtttatt atcagtctgt gcataactaa aagttcaaag caaattcaat tttgcttaag 2100
ggaacattgt aaagtaacaa ttcttggtat tacatgcctc gtatgatcca tttcaaacca 2160
tagagaatta cacctttgtg tcactgtttc aagagacaaa cagatttgaa cagctaaaac 2220
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tcctgtcaaa tgaagtaatt tcctgtacac cacttctctt gcaaactgtc ttctatttcc 2340
tttcatttga cctagatcga ctacgagacc tagagaagga tcgggacggc ttgtgatttc 2400
```

```
tctcccgaga cagcgatctc tctcttctcc tatctctaga aagggacctg ctccggctgc 2460
gagagaagct tctccttctt ggagatctgc gacgaggtgg aggactcctc ctacgataat 2520
catctcgagg gcgacgaccc caagagggag gtgggccacg atttctactt cttttttcac 2580
cattcgacag ttccactctt acacggcagc cacatagtgt tcttccatct agctctcgga 2640
ctgcatcagc tgcatctcgg ggatcttcaa attcaacaaa agcaaagccg ggtgggtttc 2700
tagcaaccca cacacttcgg agtggtccat agtagccaaa agcccgttcc aattccgtct 2760
tgttgccatt gtttccaaga ttgcctacat aaaccttaca gtccaatgga caggaatcac 2820
gatgcatttc gagatctagg gttaaaaaat gcggcggctc aaatccacac gctccgatga 2880
gtcttcccgc tttcctccgg cccaacacca accaactctc tcactcaccc ggagaaatag 2940
aggacactgg ggtcctggtc gaaggtgaac tgtgttcctt gaccgtggtg cacatcccaa 3000
tctacgataa ggaccctccg gatgcg                                      3026
```

<210> 315
<211> 1721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 232818.15

<220>
<221> unsure
<222> 119, 126
<223> a, t, c, g, or other

<400> 315

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cagaggagta gagggcagta ctgcgcagta gactgcacag gcgcagtcga ggagctccgc 60
tcctttcctc cttcagcccc gccccgcccc atttctgccg aatcacagaa gttcaaganc 120
ggtcanctga tgctacgctg tgcggtacac gtgacaacgg gggcgaaggc aggcgcaagg 180
agcaagcgca gattgtgggc ggctgtgtca gctgacccaa ggggccttcg aggtgcctta 240
ggccgcttgc cttgctctca gcaatcgctg ccgccatggc tagtcagtct caggggattc 300
agcagctgct gcaggccgag aagcgggcag ccgagaaggt gtccgaggcc cgcaaaagaa 360
agaaccggag gctgaagcag gccaaagaag aagctcaggc tgaaattgaa cagtaccgcc 420
tgcagaggga gaaagaattc aaggccaagg aagctgcggc attgggatcc cgtggcagtt 480
gcagcactga agtggagaag gagacccagg agaagatgac catcctccag acatacttcc 540
ggcagaacag ggatgaagtc ttggacaacc tcttggcttt tgtctgtgac attcggccag 600
aaatccatga aaactaccgc ataaatggat agaagagaga agcacctgtg ctgtggagtg 660
gcattttaga tgccctcacg aatatgaagc ttagcacagc tctagttaca ttcttatgat 720
atggcattaa attatttcca tatattatat aataggtcct tccacttttt ggagagtagc 780
aaatctagct tttttgtaca gacttagaaa ttatctaaag atttcatctt tttacctcat 840
atttcttagg aatttaatgg ttatatgttg tctttttttc ctatgtcttt tggctcaagc 900
aacatgtata tcagtgttga ctttttcttt cttagatcta gtttaaaaaa aaaaaaccaa 960
cataacaatt ctttgaagaa aggaagggat taaataattt ttttccctaa cactttcttg 1020
aaggtcaggg gctttatcta tgaaaaagta gtaaatagtt ctttgtaacc tgtgtgaagc 1080
agcagccagc cttaaagtag tccattcttg ctaatggtta gaacagtgaa tactagtgga 1140
attgtttggg ctgctttag tttctcttaa tcaaaattac tagatgatag aattcaagaa 1200
cttgttacat gtattacttg gtgtatcgat aatcatttaa aagtaaagac tctgtcatgc 1260
attttttcccc attctttttt ttttccctgt ctccgtgaca accagtggtt cttcattttt 1320
gatcatgcga aatgcacttt gacccagatg gtctgcagaa cttcacttag gacattagca 1380
cacaaatagc acacatatca catacccatt tatatacata attagaaaat gttcctgata 1440
catgtgtcat gtgatttctt ccaacaaatg ttttggaaaa cagcaagcaa ctagtctgta 1500
ggttgtcttt tctctagaga tccttgtcct gggacagcct ggggcaagtt attaagcata 1560
tttccttcct ggtgggctag atgatgtgca ttatacctgt agtaccttca tactagccct 1620
tacaagttaa atgtcctgtg gccatcttag ccgaaagtct ttggttgcaa aatcttatag 1680
gtaaaaacag ttgaaagaac attatgggat ttccttgctt g                     1721
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<210> 316
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 347781.10

<220>
<221> unsure
<222> 524-538
<223> a, t, c, g, or other

<400> 316
gaaggtcctt cgcaacaggc ccatcatgtt cagaggtgag gtctgtctga atgtggaaga 60
gaagaagact cgagctgcca gggaagggga ctgacgagat gatcgcctta ggggacctgg 120
aggccctcta tgtgggctgg gtggtggaat gagaggccct cctcatggag gcatggtgca 180
gaaagcagga tttggagtgg gaagaaggct tgctccatgg cagtgaatct tcatggatct 240
tcacgcggcc atacaaaccc tagctcctac agaatggtga atttctttga ccagcctttg 300
gtatcttgga gtatgacccc agtttgttat aaactgctta agttagtata attttacttc 360
ttttgtgtgt taatgatgtg tgctccttct ccctctcttc cctttcctga cctttagtct 420
ttcacttcca attttgtgga atgatatttt aggaataacg gactttttaaa gaagcaaaaa 480
aaaagactga atttccttgc ttactttgca tatacagact ggannnnnnn nnnnnnnnac 540
agccatttcc ccaaaggaat gtcttgcata ttactgacat ttggtatgtt tcattcattg 600
gaatatttct tattttctac gtgtttgaaa agcctgtaag aaatacagga tttgataata 660
ttttgaaggc aggaaaaacc caaattgttt cttctttgag agtcatgact accttctggt 720
gtggagaaat tgccattgga aaatttgaca attttgattc tcactggtat gtttaaaaac 780
tgaataaaag gaatagaatt ttttttttgat aaaggatcac aaaacaattc taaaacctaa 840
ctgtttttac cattgaaatt taaattgtga taataggttt taaatgtcta gaatgcaact 900
gataggcttt tcttgaactg ttagtttttt tgaagtagtt ttttcatgtt taatttgtat 960
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gttgtgcctt ctatttatct ttgatttcag tcttggcaat tgtttaaaaa aaaaatctag 1080
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atgcctttga agacagatgc ttctatagag gttctttgac ctaaatagtt cagcatttgt 1260
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taatattgga ctttgctcat gtgctcgtgt ccgcattttt tttttctta aaatcatagc 1380
catatggtaa attttctatt ttgttatggt tctctttttat tgatgggcat gcagtgggtg 1440
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<210> 317
<211> 2833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2477616CB1

<400> 317
tgagtggcag ttatatagac cggcggcgga cacgcgtgtg tgcggacgca gttgcgtgag 60
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aggtttggac atatttgact cttttccccc caggttgaat tgaccaaagc aatggtgatg 180
gagaagccta gtcccctgct ggtcgggcgg gaatttgtga gacagtatta cacactgctg 240
aaccaggccc cagacatgct gcatagattt tatggaaaga actcttctta tgtccatggg 300
```

```
ggattggatt caaatggaaa gccagcagat gcagtctacg gacagaaaga aatccacagg 360
aaagtgatgt cacaaaactt caccaactgc cacaccaaga ttcgccatgt tgatgctcat 420
gccacgctaa atgatggtgt ggtagtccag gtgatggggc ttctctctaa caacaaccag 480
gctttgagga gattcatgca aacgtttgtc cttgctcctg aggggtctgt tgcaaataaa 540
ttctatgttc acaatgatat cttcagatac caagatgagg tctttggtgg gtttgtcact 600
gagcctcagg aggagtctga agaagaagta gaggaacctg aagaaagaca gcaaacacct 660
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gaagaacatt tagaggagcc tgttgctgaa ccagagcctg atcctgaacc agaaccagaa 780
caagaacctg tatctgaaat ccaagaggaa aagcctgagc cagtattaga agaaactgcc 840
cctgaggatg ctcagaagag ttcttctcca gcacctgcag acatagctca gacagtacag 900
gaagacttga ggacattttc ttgggcatct gtgaccagta agaatcttcc acccagtgga 960
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cgagaacaac gaataaatat tcctccccaa aggggaccca gaccaatccg tgaggctggt 1140
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actggatttt tttttttttt ttacagccat ttccccaaag gaatgtcttg catattactg 1920
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tgagagtcat gactaccttc tggtgtggag aaattgccat tggaaaattt gacaatttttg 2100
attctcactg gtatgtttaa aaactgaata aaaggaatag aatttttttt tgataaagga 2160
tcacaaaaca attctaaaac ctaactgttt ttaccattga aatttaaatt gtgataatag 2220
gttttaaatg tctagaatgc aactgatagg cttttcttga actgttagtt ttttttgaagt 2280
agttttttca tgtttaattt gtatttgtaa aaaaacaaaa agcaaaaaaa ttcccaaaac 2340
ccagataaca accagagcaa aactgttgtg ccttctattt atctttgatt tcagtcttgg 2400
caattgttta aaaaaaaaat ctagatttgt tttattaggt tcagagtatg tggggaatta 2460
tagaatccct ctttcatcac tttgtgtatg tctttttgtta acatatttgt tatgccttat 2520
tctaaaattg agtctcaaac tggaatgcct ttgaagacag atgcttctat agaggttctt 2580
tgacctaaat agttcagcat ttgtattttt attctggtat ctaatcagat tcctaatcat 2640
agcccgtaag aaggaatgtt actttaatat tggactttgc tcatgtgctc gtgtccgcat 2700
tttttttttt cttaaaatca tagccatatg gtaaatttttc tattttgtta tggttctctt 2760
ttattgatgg gcatgcagtg ggtgttactt ggaaatggcc aattttttatt aaaatatttc 2820
tggaaaaaaa aaa                                                   2833
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<210> 318
<211> 466
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2477616CD1

<400> 318
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Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe
 1               5                  10                  15
```

```
Val Arg Gln Tyr Tyr Thr Leu Leu Asn Gln Ala Pro Asp Met Leu
            20                  25              30
His Arg Phe Tyr Gly Lys Asn Ser Ser Tyr Val His Gly Gly Leu
            35                  40              45
Asp Ser Asn Gly Lys Pro Ala Asp Ala Val Tyr Gly Gln Lys Glu
            50                  55              60
Ile His Arg Lys Val Met Ser Gln Asn Phe Thr Asn Cys His Thr
            65                  70              75
Lys Ile Arg His Val Asp Ala His Ala Thr Leu Asn Asp Gly Val
            80                  85              90
Val Val Gln Val Met Gly Leu Leu Ser Asn Asn Asn Gln Ala Leu
            95                  100             105
Arg Arg Phe Met Gln Thr Phe Val Leu Ala Pro Glu Gly Ser Val
            110                 115             120
Ala Asn Lys Phe Tyr Val His Asn Asp Ile Phe Arg Tyr Gln Asp
            125                 130             135
Glu Val Phe Gly Gly Phe Val Thr Glu Pro Gln Glu Glu Ser Glu
            140                 145             150
Glu Glu Val Glu Glu Pro Glu Glu Arg Gln Gln Thr Pro Glu Val
            155                 160             165
Val Pro Asp Asp Ser Gly Thr Phe Tyr Asp Gln Ala Val Val Ser
            170                 175             180
Asn Asp Met Glu Glu His Leu Glu Glu Pro Val Ala Glu Pro Glu
            185                 190             195
Pro Asp Pro Glu Pro Glu Pro Glu Gln Glu Pro Val Ser Glu Ile
            200                 205             210
Gln Glu Glu Lys Pro Glu Pro Val Leu Glu Glu Thr Ala Pro Glu
            215                 220             225
Asp Ala Gln Lys Ser Ser Ser Pro Ala Pro Ala Asp Ile Ala Gln
            230                 235             240
Thr Val Gln Glu Asp Leu Arg Thr Phe Ser Trp Ala Ser Val Thr
            245                 250             255
Ser Lys Asn Leu Pro Pro Ser Gly Ala Val Pro Val Thr Gly Ile
            260                 265             270
Pro Pro His Val Val Lys Val Pro Ala Ser Gln Pro Arg Pro Glu
            275                 280             285
Ser Lys Pro Glu Ser Gln Ile Pro Pro Gln Arg Pro Gln Arg Asp
            290                 295             300
Gln Arg Val Arg Glu Gln Arg Ile Asn Ile Pro Pro Gln Arg Gly
            305                 310             315
Pro Arg Pro Ile Arg Glu Ala Gly Glu Gln Gly Asp Ile Glu Pro
            320                 325             330
Arg Arg Met Val Arg His Pro Asp Ser His Gln Leu Phe Ile Gly
            335                 340             345
Asn Leu Pro His Glu Val Asp Lys Ser Glu Leu Lys Asp Phe Phe
            350                 355             360
Gln Ser Tyr Gly Asn Val Val Glu Leu Arg Ile Asn Ser Gly Gly
            365                 370             375
Lys Leu Pro Asn Phe Gly Phe Val Val Phe Asp Asp Ser Glu Pro
            380                 385             390
Val Gln Lys Val Leu Ser Asn Arg Pro Ile Met Phe Arg Gly Glu
            395                 400             405
Val Arg Leu Asn Val Glu Glu Lys Lys Thr Arg Ala Ala Arg Glu
            410                 415             420
Gly Asp Arg Arg Asp Asn Arg Leu Arg Gly Pro Gly Gly Pro Arg
            425                 430             435
```

311

```
Gly Gly Leu Gly Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met
            440                 445                 450
Val Gln Lys Pro Gly Phe Gly Val Gly Arg Gly Leu Ala Pro Arg
            455             460                 465
Gln
```

<210> 319
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 360532.1

<400> 319
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gggcagagga catggggact caggccagcc tgagatcact gggaccagag gaggggctgg 60
aggatactac acgcaggggt gggctgggct gggctgggct gggccaggaa tgcagcgggg 120
cagggctatt taagtcaagg gccggctggc aacccccagca agctgtcctg tgagcccgcc 180
agcatggatg acatctacaa ggctgcggta gagcagctga cagaagagca gaaaaatgag 240
ttcaaggcag ccttcgacat cttcgtgctg ggcgctgagg atggctgcat cagcaccaag 300
gagctgggca aggtgatgag gatgctgggc cagaacccca cccctgagga gctgcaggag 360
atgatcgatg aggtggacga ggacggcagc ggcacggtgg actttgatga gttcctggtc 420
atgatggttc ggtgcatgaa ggacgacagc aaagggaaat ctgaggagga gctgtctgac 480
ctcttccgca tgtttgacaa aaatgctgat ggctacatcg acctggatga gctgaagata 540
atgctgcagg ctacaggcga gaccatcacg gaggacgaca tcgaggagct catgaaggac 600
ggagacaaga caacgacgg ccgcatcgac tatgatgagt tcctggagtt catgaaggg 660
gtggagtaga tgctgacctt cacccagagc tgcctatgcc cagcctccaa ctccagctga 720
gtcctggggt tggggagggg gtcggggtcc caggacctga gcctggccat gtcctcaacc 780
ccaaatcccc cgactccctc cccagatctg tcctggggga tgcaaataaa gcctgctctc 840
ccaagg                                                          846
```

<210> 320
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 360532.9

<400> 320
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ggagaaacac cttgatcttg gtttgcaagc ccttctccgc taatactgac taccaagctg 60
atccctacaa aaatgcctgt gagcccgcca gcattggatg acatctacaa ggctgcggta 120
gagcagcttg acagaagagc agaaaaatga gttcaaggca gccttcgaca tcttcgtgct 180
gggcgctgag gatggctgca tcagcaccaa ggagctgggc aaggtgatga ggatgctggg 240
ccagaacccc acccctgagg agctgcagga tgatcgat gaggtggacg aggacggcag 300
cggcacggtg gactttgatg agttcctggt catgatggtt cggtgcatga aggacgacag 360
caaagggaaa tctgaggagg agctgtctga cctcttccgc atgtttgaca aaaatgctga 420
tggctacatc gacctggatg agctgaagat aatgctgcag gctacaggcg agaccatcac 480
ggaggacgac atcgaggagc tcatgaagga cggagacaag aacaacgacg gccgcatcga 540
ctatgatgag ttcctggagt tcatgaaggg gtggagtag atgctgacct tcacccagag 600
ctgcctatgc ccagcctcca actccagctg agtcctgggg ttggggaggg ggtcggggtc 660
ccaggacctg agcctggcca tgtcctcaac cccaaatccc cgactccct ccccagatct 720
gtcctggggg atgcaaataa agcctgctct cccaaaaaga aagagaaggt cccgttagag 780
ccgaaatgct ggatcccaag agtgtggggg gggtgtcaac ttgtctggga attcgatttc 840
```

312

```
ccggaaccga gataggcggg atggcccaaa agggattacc tgactgtgta tgggtgggag 900
ggtcggactt tcgaacgaga ggtatgctgg acccgctccg aattggggggg gaggtaatag 960
atttaaaaaa agcccgcgag ggccctccgc catgggaaag aacccggggg tggggcatag 1020
taggggggac caaaaaagaa ttttgatgtg gcccccccccc aagtttcact tgggggaaaa 1080
ggaggctgtg gcaaaggccc tatcccaatg gggaaaagcc cgtggggaaa aagaggtttt 1140
ggcgaaaagg cccccccgc                                             1158
```

<210> 321
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 110245.1

<400> 321
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cgcctggtta aatatttttg gcaagagtac ttcataggcc accctcaaaa tttcagcatc 60
actcgtacca agtatctatc acaaggcagc atgtgtctac atctccaccc cagtgctgtt 120
acagtgggac agtttctagt gtattgtcat tgcgaccagg ctttttaagat tcttagcata 180
tctgtaatat ccacatgcag atgtagaatc caaatcgtat ttacagagaa ctttgcatgg 240
cagctttttat atggtagtga tacattcagt ttcttacatt ctagattatt cagggaggtt 300
ctggagttgg acagatttgg ggttaagcct gatggctagc tgtgtgacct tacacacctc 360
gcttcatctg tttcctatgg gaatttataa tagtagctac ttcctagggc acaggatctg 420
gcccagggaa gacctcagtg ttagtggact ctttaatgat cgttagcagc tgttgtgatc 480
ataaaacgag aagcacat                                             498
```

<210> 322
<211> 1939
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 478620.53

<400> 322
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atgctcagtc ctccaggcgt cggtgctcag cggtgttgga acttcgttgc ttgcttgcct 60
gtgcgcgcgt gcgcggacat ggcctcaaac gattatacccc aacaagcaac ccaaagctat 120
ggggcctacc ccacccagcc cgggcagggc tattcccagc agagcagtca gccctacgga 180
cagcagagtt acagtggtta tagccagtcc acggacactt caggctatgg ccagagcagc 240
tattcttctt atggccagag ccagaacaca ggctatggaa ctcagtcaac tccccaggga 300
tatggctcga ctggcggcta tggcagtagc cagagctccc aatcgtctta cgggcagcag 360
tcctcctatc ctggctatgg ccagcagcca gctcccagca gcacctcggg aagttacggt 420
agcagttctc agagcagcag ctatgggcag ccccagagtg ggagctacag ccagcagcct 480
agctatggtg gacagcagca aagctatgga cagcagcaaa gctataatcc ccctcagggc 540
tatggacagc agaaccagta caacagcagc agtggtggtg gagaggtgga ggtggaggtg 600
gaggtaacta tggccaagat caatcctcca tgagtagtgg tggtggcagt ggtggcggtt 660
atggcaatca agaccagagt ggtggaggtg gcagcggtgg ctatggacag caggaccgtg 720
gaggccgcgg caggggtggc agtggtggcg gcggcggcgg cggcggtggt ggttacaacc 780
gcagcagtgg tggctatgaa cccagaggtc gtggaggtgg ccgtggaggc agaggtggca 840
tgggcggaag tgaccgtggt ggcttcaata aatttggtgg ccctcgggac caaggatcac 900
gtcatgactc cgaacaggat aattcagaca acaacaccat ctttgtgcaa ggcctgggtg 960
agaatgttac aattgagtct gtggctgatt acttcaagca gattggtatt attaagacaa 1020
acaagaaaac gggacagccc atgattaatt tgtacacaga cagggaaact ggcaagctga 1080
agggagaggc aacggtctct tttgatgacc caccttcagc taaagcagct attgactggt 1140
```

```
ttgatggtaa agaattctcc ggaaatccta tcaaggtctc atttgctact cgccgggcag 1200
actttaatcg gggtggtggc aatggtcgtg gaggccgagg gcgaggagga cccatgggcc 1260
gtggaggcta tggaggtggt ggcagtggtg gtggtggccg aggaggattt cccagtggag 1320
gtggtggcgg tggaggacag cagcgagctg gtgactggaa gtgtcctaat cccacctgtg 1380
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cccattaaaa gtgaccattt tagttaaatt ttgttcctct tccccctttt cactttcctg 1860
gaagatcgat gtcccgatca ggaaggtaga gagtttcct gttcagatta ccgtgcccag 1920
caggaactgg aatacagtg                                            1939
```

```
<210> 323
<211> 1684
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1813444CB1

<400> 323
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cggacatggc ctcaaacgat tatacccaac aagcaaccca aagctatggg gcctacccca 120
cccagcccgg gcagggctat tcccagcaga gcagtcagcc ctacggacag cagagttaca 180
gtggttatag ccagtccacg gacacttcag gctatggcca gagcagctat tcttcttatg 240
gccagagcca gaacacaggc tatggaactc agtcaactcc ccagggatat ggctcgactg 300
gcggctatgg cagtagccag agctcccaat cgtcttacgg gcagcagtcc tcctatcctg 360
gctatggcca gcagccagct cccagcagca cctcgggaag ttacggtagc agttctcaga 420
gcagcagcta tgggcagccc cagagtggga gctacagcca gcagcctagc tatggtggac 480
agcagcaaag ctatggacag cagcaaagct ataatccccc tcagggctat ggacagcaga 540
accagtacaa cagcagcagt ggtggtggag gtggaggtgg aggtggaggt aactatggcc 600
aagatcaatc ctccatgagt agtggtggtg gcagtggtgg cggttatggc aatcaagacc 660
agagtggtgg aggtggcagc ggtggctatg gacagcagga ccgtggacgc cgcggcaggg 720
gtggcagtgg tggcggcggc ggcggcggcg gtggtggtta caaccgcagc agtggtggct 780
atgaacccag aggtcgtgga ggtggccgtg gaggcagagg tggcatgggc ggaagtgacc 840
gtggtggctt caataaattt ggtgtgttca agaaggaagt gtatcttcat acatcaccac 900
acctgaaagc agatgtgctt ttccagactg atccaactgc agagatggca gctgagtcat 960
tgcctttctc cttcgggaca ctgtccagct gggagctgga agcctggtat gaggacctgc 1020
aagaggtcct gtcttcagat gaaaatgggg gtacctatgt ttcacctcct ggaaatgaag 1080
aggaagaatc aaaaatcttc accactcttg accctgcttc tctggcttgg ctgactgagg 1140
aggagccaga accagcagag gtcacaagca cctcccagag ccctcactct ccagattcca 1200
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aacagagtgg tcattcccca gcccgggctg gaaagcagcg catgaaggag aaagaacagg 1320
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PA-0035 US

<211> 462
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1813444CD1

<400> 324
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Gln Pro Tyr Gly Gln Gln Ser Tyr Ser Gly Tyr Ser Gln Ser Thr
               35                  40                  45
Asp Thr Ser Gly Tyr Gly Gln Ser Ser Tyr Ser Ser Tyr Gly Gln
               50                  55                  60
Ser Gln Asn Thr Gly Tyr Gly Thr Gln Ser Thr Pro Gln Gly Tyr
               65                  70                  75
Gly Ser Thr Gly Gly Tyr Gly Ser Ser Gln Ser Ser Gln Ser Ser
               80                  85                  90
Tyr Gly Gln Gln Ser Ser Tyr Pro Gly Tyr Gly Gln Gln Pro Ala
               95                 100                 105
Pro Ser Ser Thr Ser Gly Ser Tyr Gly Ser Ser Ser Gln Ser Ser
              110                 115                 120
Ser Tyr Gly Gln Pro Gln Ser Gly Ser Tyr Ser Gln Gln Pro Ser
              125                 130                 135
Tyr Gly Gly Gln Gln Gln Ser Tyr Gly Gln Gln Gln Ser Tyr Asn
              140                 145                 150
Pro Pro Gln Gly Tyr Gly Gln Gln Asn Gln Tyr Asn Ser Ser Ser
              155                 160                 165
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Asn Tyr Gly Gln Asp
              170                 175                 180
Gln Ser Ser Met Ser Ser Gly Gly Gly Ser Gly Gly Gly Tyr Gly
              185                 190                 195
Asn Gln Asp Gln Ser Gly Gly Gly Gly Ser Gly Gly Tyr Gly Gln
              200                 205                 210
Gln Asp Arg Gly Arg Arg Gly Arg Gly Gly Ser Gly Gly Gly Gly
              215                 220                 225
Gly Gly Gly Gly Gly Gly Tyr Asn Arg Ser Ser Gly Gly Tyr Glu
              230                 235                 240
Pro Arg Gly Arg Gly Gly Gly Arg Gly Gly Arg Gly Gly Met Gly
              245                 250                 255
Gly Ser Asp Arg Gly Gly Phe Asn Lys Phe Gly Val Phe Lys Lys
              260                 265                 270
Glu Val Tyr Leu His Thr Ser Pro His Leu Lys Ala Asp Val Leu
              275                 280                 285
Phe Gln Thr Asp Pro Thr Ala Glu Met Ala Ala Glu Ser Leu Pro
              290                 295                 300
Phe Ser Phe Gly Thr Leu Ser Ser Trp Glu Leu Glu Ala Trp Tyr
              305                 310                 315
Glu Asp Leu Gln Glu Val Leu Ser Ser Asp Glu Asn Gly Gly Thr
              320                 325                 330
Tyr Val Ser Pro Pro Gly Asn Glu Glu Glu Glu Ser Lys Ile Phe
              335                 340                 345
Thr Thr Leu Asp Pro Ala Ser Leu Ala Trp Leu Thr Glu Glu Glu
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315

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          350                     355                     360
Pro Glu Pro Ala Glu Val Thr Ser Thr Ser Gln Ser Pro His Ser
          365                     370                     375
Pro Asp Ser Ser Gln Ser Ser Leu Ala Gln Glu Glu Glu Glu Glu
          380                     385                     390
Asp Gln Gly Arg Thr Arg Lys Arg Lys Gln Ser Gly His Ser Pro
          395                     400                     405
Ala Arg Ala Gly Lys Gln Arg Met Lys Glu Lys Glu Gln Glu Asn
          410                     415                     420
Glu Arg Lys Val Ala Gln Leu Ala Glu Glu Asn Glu Arg Leu Lys
          425                     430                     435
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          440                     445                     450
Ala Leu Ile Asp Arg Met Val Asn Leu His Gln Ala
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<211> 2825
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 474588.21

<220>
<221> unsure
<222> 1733, 2736, 2816
<223> a, t, c, g, or other

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tctttgctgc tgcttcagag aatcttttca gagagaaata aatgagttga atattttca 240
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<210> 326
<211> 997
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 407838.1

<220>
<221> unsure
<222> 740, 746, 819
<223> a, t, c, g, or other

<400> 326
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aaaaatcaag caaacagaaa tattcaagaa caccaacaaa ctccagcaag ctacctccat 180
ggaacagggg agagggcaac tagcaatgcc taaaattaat gctgaaccat cagccaagaa 240
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ggaaatggaa aagcattctt tcgaagcaca aggatgaatt gcaaagagc aagtggaaaa 420
aaacaagatt ttcaaggcaa aagaaaattt aaaaaattaa aagcgtacaa cctggtcccc 480
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gaagtgagtg attttttaaac caagatcctt ataaaaccac agattgtcag tcttgtcaat 600
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taaagttata caatttagct ggcaaaaaag cccttccctc accccccaa aaaccatggc 720
acttggtcaa gcagaagaan actganatat agcagtataa attgaattgc aaatcttaaa 780
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aatcatatta gaaataatta tgaagttaca aagtgaccta gagagaataa atttgaatga 960
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PA-0035 US

<210> 327
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 994387.19

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<210> 328
<211> 4227
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 347796.7

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318

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<211> 525
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 406498.4c

<400> 329

319

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<211> 1744
<212> DNA
<213> Homo sapiens
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<223> Incyte ID No: 3346307CB1
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<210> 331
<211> 232
<212> PRT
<213> Homo sapiens
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320

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<220>
<221> misc_feature
<223> Incyte ID No: 3346307CD1

<400> 331
Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Ser Thr Ser Ser
1               5                  10                  15
Ser Pro Ser Ser Leu Pro Arg Thr Pro Thr Pro Asp Arg Pro Pro
                20                  25                  30
Arg Ser Ala Trp Gly Ser Ala Thr Arg Glu Glu Gly Phe Asp Arg
                35                  40                  45
Ser Thr Ser Leu Glu Ser Ser Asp Cys Glu Ser Leu Asp Ser Ser
                50                  55                  60
Asn Ser Gly Phe Gly Pro Glu Glu Asp Thr Ala Tyr Leu Asp Gly
                65                  70                  75
Val Ser Leu Pro Asp Phe Glu Leu Leu Ser Asp Pro Glu Asp Glu
                80                  85                  90
His Leu Cys Ala Asn Leu Met Gln Leu Leu Gln Glu Ser Leu Ala
                95                  100                 105
Gln Ala Arg Leu Gly Ser Arg Arg Pro Ala Arg Leu Leu Met Pro
                110                 115                 120
Ser Gln Leu Val Ser Gln Val Gly Lys Glu Leu Leu Arg Leu Ala
                125                 130                 135
Tyr Ser Glu Pro Cys Gly Leu Arg Gly Ala Leu Leu Asp Val Cys
                140                 145                 150
Val Glu Gln Gly Lys Ser Cys His Ser Val Gly Gln Leu Ala Leu
                155                 160                 165
Asp Pro Ser Leu Val Pro Thr Phe Gln Leu Thr Leu Val Leu Arg
                170                 175                 180
Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly Leu Phe Ser Ser
                185                 190                 195
Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser Leu Thr Leu
                200                 205                 210
Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser Ser Glu
                215                 220                 225
Gln Leu Leu Ile Glu Glu Cys
                230

<210> 332
<211> 947
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4005778CB1

<400> 332
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acagatccgg ggactctctt ccagcctccg accgccctcc gatttcctct ccgcttgcaa  180
cctccgggac catcttctcg gccatctcct gcttctggga cctgccagca ccgttttttgt 240
ggttagctcc ttcttgccaa ccaaccatga gctcccagat tcgtcagaat tattccaccg  300
acgtggaggc agccgtcaac agcctggtca atttgtacct gcaggcctcc tacacctacc  360
tctctctggg cttctatttc gaccgcgatg atgtggctct ggaaggcgtg agccacttct  420
tccgcgaatt ggccgaggag aagcgcgagg gctacgagcg tctcctgaag atgcaaaacc  480
agcgtggcgg ccgcgctctc ttccaggaca tcaagaagcc agctgaagat gagtgggggta 540
```

321

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aaaccccaga cgccatgaaa gctgccatgg ccctggagaa aaagctgaac caggcccttt 600
tggatcttca tgccctgggt tctgcccgca cggaccccca tctctgtgac ttcctggaga 660
ctcacttcct agatgaggaa gtgaagctta tcaagaagat gggtgaccac ctgaccaacc 720
tccacaggct gggtggcccg gaggctgggc tggcgagta tctcttcgaa aggctcactc 780
tcaagcacga ctaagagcct tctgagccca gcgacttctg aagggcccct tgcaaagtaa 840
tagggcttct gcctaagcct ctccctccag ccaataggca gctttcttaa ctatcctaac 900
aagccttgga ccaaatggaa ataaagcttt ttgatgcaaa aaaaaaa           947
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<210> 333
<211> 175
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4005778CD1

<400> 333
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Met Ser Ser Gln Ile Arg Gln Asn Tyr Ser Thr Asp Val Glu Ala
 1               5                  10                  15
Ala Val Asn Ser Leu Val Asn Leu Tyr Leu Gln Ala Ser Tyr Thr
                20                  25                  30
Tyr Leu Ser Leu Gly Phe Tyr Phe Asp Arg Asp Asp Val Ala Leu
                35                  40                  45
Glu Gly Val Ser His Phe Phe Arg Glu Leu Ala Glu Glu Lys Arg
                50                  55                  60
Glu Gly Tyr Glu Arg Leu Leu Lys Met Gln Asn Gln Arg Gly Gly
                65                  70                  75
Arg Ala Leu Phe Gln Asp Ile Lys Lys Pro Ala Glu Asp Glu Trp
                80                  85                  90
Gly Lys Thr Pro Asp Ala Met Lys Ala Ala Met Ala Leu Glu Lys
                95                  100                 105
Lys Leu Asn Gln Ala Leu Leu Asp Leu His Ala Leu Gly Ser Ala
                110                 115                 120
Arg Thr Asp Pro His Leu Cys Asp Phe Leu Glu Thr His Phe Leu
                125                 130                 135
Asp Glu Glu Val Lys Leu Ile Lys Lys Met Gly Asp His Leu Thr
                140                 145                 150
Asn Leu His Arg Leu Gly Gly Pro Glu Ala Gly Leu Gly Glu Tyr
                155                 160                 165
Leu Phe Glu Arg Leu Thr Leu Lys His Asp
                170                 175
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<210> 334
<211> 4252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 995575.17

<220>
<221> unsure
<222> 1730, 1747, 1751, 1763, 1769, 1771-1772, 1778
<223> a, t, c, g, or other

<400> 334
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tatggtgggg tgcttaacag aggagcgcca tctgctcgcg cgcgccgcctg cctggctcct 120
gcccgctggc tgctgccgct gccgccctga gtcactgcct gcgcagctcc ggccgcctgg 180
ctcccccatac tagtcgccga tatttggagt tcttacaaca tggcagacat tgacaacaaa 240
gaacagtctg aacttgatca agatttggat gatgttgaag aagtagaaga agaggaaact 300
ggtgaagaaa caaaactcaa agcacgtcag ctaactgttc agatgatgca aaatcctcag 360
attcttgcag cccttcaaga aagacttgat ggtctggtag aaacaccaac aggatacatt 420
gaaagcctgc ctagggtagt taaaagacga gtgaatgctc tcaaaaacct gcaagttaaa 480
tgtgcacaga tagaagccaa attctatgag gaagttcacg atcttgaaag gaagtatgct 540
gttctctatc agcctctatt tgataagcga tttgaaatta ttaatgcaat ttatgaacct 600
acggaagaag aatgtgaatg gaaaccagat gaagaagatg agatttcgga ggaattgaaa 660
gaaaaggcca agattgaaga tgagaaaaag gatgaagaaa aagaagaccc caaaggaatt 720
cctgaatttt ggttaactgt ttttaagaat gttgacttgc tcagtgatat ggttcaggaa 780
cacgatgaac ctattctgaa gcacttgaaa gatattaaag tgaagttctc agatgctggc 840
cagcctatga gtttttgtctt agaatttcac tttgaaccca atgaatattt tacaaatgaa 900
gtgctgacaa agacatacag gatgaggtca gaaccagatg attctgatcc cttttctttt 960
gatggaccag aaaattatggg ttgtacaggg tgccagatag attggaaaaa aggaaagaat 1020
gtcactttga aaactattaa gaagaagcag aaacacaagg gacgtgggac agttcgtact 1080
gtgactaaaa cagtttccaa tgactctttc tttaactttt ttgcccctcc tgaagttcct 1140
gagagtggag atctggatga tgatgctgaa gctatccttg ctgcagactt cgaaattggt 1200
cactttttac gtgagcgtat aatcccaaga tcagtgttat attttactgg agaagctatt 1260
gaagatgatg atgatgatta tgatgaagaa ggtgaagaag cggatgagga aggggaagaa 1320
gaaggagatg aggaaaatga tccagactat gacccaaaga aggatcaaaa cccagcagag 1380
tgcaagcagc agtgaagcag gatgtatgtg gccttgagga taacctgcac tggtctacct 1440
tctgcttccc tggaaaggat gaatttacat catttgacaa gcctatttc aagttatttg 1500
ttgtttgttt gcttgttttt gtttttgcag ctaaaataaa aatttcaaat acaatttag 1560
ttcttacaag ataatgtctt aattttgtac caattcaggt agaagtagag gcctaccttg 1620
aattaagggt tatactcagt ttttaacaca ttgttgaaga aaaggtacca gctttggaac 1680
gagatgctat actaataagc aagtgtaaaa aaaaaaaaa aagaggaagn aaatcttaag 1740
tgattgntgc ngttttcttt tanaaaaana nnaatagnat tcattttctt tgggttagag 1800
ctagagagaa ggccccaagc ttctatggtt tcttctaatt cttattgctt aaagtatgag 1860
tatgtcactt acccgtgctt ctgtttactg tgtaattaaa atgggtagta ctgtttacct 1920
aactacctca tggatgtgtt aaggcatatt gagttaaatc tcatataatg tttctcaatc 1980
ttgttaaaag ctcaaaattt tgggcctatt tgtaatgcca gtgtgacact aagcattttg 2040
ttcacaccac gctttgataa ctaaactgga aaacaaaggt gttaagtacc tctgttctgg 2100
atctggggca gtcagcactc tttttagatc tttgtgtggc tcctattttt atagaagtgg 2160
agggatgcac tatttcacaa ggtccaagat ttgttttcag atatttttga tgactgtatt 2220
gtaaatacta cagggatagc actatagtat tgtagtcatg agacttaaag tggaaataag 2280
actattttg acaaaagatg ccattaaatt tcagactgta gagccacatt tacaatacct 2340
caggctaatt actgttaatt ttggggttga actttttttt gacagtgagg gtggattatt 2400
ggattgtcat tagaggaagg tctagatttc ctgctcttaa taaaattaca ttgaattgat 2460
ttttagaggt aatgaaaact tcctttctga gaagttagtg ttaaggtctt ggaatgtgaa 2520
cacattgttt gtagtgctat ccattcctct cctgagattt taacttacta ctggaaatcc 2580
ttaaccaatt ataatagctt ttttctttta ttttcaaaat gatttccttt gctttgatta 2640
gacactatgt gctttttttt tttaaccata gttcatcgaa atgcagcttt ttctgaactt 2700
caaagataga atcccatttt taatgaactg aagtagcaaa atcatctttt tcattcttta 2760
ggaaatagct attgccaaag tgaaggtgta gataatacct agtcttgtta cataaagggg 2820
atgtggtttg cagaagaatt ttctttataa aattgaagtt ttaagggacg tcagtgttta 2880
tgccattttt ccagttccaa aatgattcca ttccattcta gaaatttgaa gtatgtaacc 2940
tgaaatcctt aataaaattt ggatttaatt ttataaaatg tactggtgat attttgggtg 3000
ttttttttta aatgaatgta tatacttttt ttttgaagag tggagagtag tgatgtctag 3060
agggagctat tttgtgctga ggccactatg ttctgtaaat atataatttt aagagcaacc 3120
tcacaatccc tgctaagtgg agtttattat ttgaagacta aaatggaatt ccatagttcc 3180
tgataggtta tattctgggt tattattctg agttatctac aaacattttt gagatttgtc 3240
tttacactct gattgtagtt ccagcagcc cacgcacact gccaagtaag tctcattttt 3300
```

323

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tcctgttaga aatggtgaaa tatcatataa tcacttataa agaaaactga tatgaaaaaa 3360
ttttagagtt gtttgcttta tggtcactca agtagggtaa gtgttccaca aattccacaa 3420
gttgatagtt taacatggat gtctgaaagc cacatatata atttcttagg attcttaaat 3480
tagtaaatct agcttactga agcagtatta gcatcactat tttagattgc aaaaatacct 3540
taattgtgtg gaactggctt gtagagtggt acttaagaaa aatgggattc tacctctatt 3600
tctgttttag cacacttaat caggaaagga tatattaact ttcataaaaa tatttttgtt 3660
gtgtgaatag gttaatgata tggtaaggcc cctaaaataa ctgaattaat tgtttattgt 3720
aattgtaggc cattcccatt attaaaaata aagacaaaac ttgaagtaac tgaaaatctt 3780
atcgtgctat gtagaaatat tgaactaata ttcaaatatt tgaatgcttt ggtttcaggg 3840
attggtttaa aattggagtc cttttttatg ggttagtctt acaaaaattt aagcctttat 3900
atttttgact ttaaatcaaa acaaatgtta tttttaaatgt acagaataga ttggtagtgc 3960
agaagagtgt aagttcttca taggagcttt agaaaagaga aatatgtgct aattcagttt 4020
tttttttaatc tgcactgtac atatatactt ggtaattatg agcttgattt tgttttttgga 4080
aatatgtgtt cataatttag gtaatttgct acttaaagca ctaagtctct gatacctgaa 4140
aagtacatgt aaatggtgat ggtgaaataa tactgcagtt aacttaatag atgtatactg 4200
gtgattttttg tatgctggat taaaactcca gatattaaaa tataacctgg at        4252
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<210> 335
<211> 4303
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 863406CB1

<400> 335
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cttcaattaa gtacaattta gaagaactct accaggctgt agaaaatctc tgttcttaca 180
agatttctgc aaacttgtac aaacagctga gacagatctg cgaagatcac atcaaagcac 240
agattcatca attcagagag gattcattgg atagcgttct tttttaaag aagattgata 300
gatgctggca aaaccattgc agacaaatga tcatgatcag gagcatttt ttgtttctgg 360
atagaactta cgttcttcag aattcaatgc taccctccat ttgggacatg ggactggagt 420
tatttagggc tcatattata agtgatcaga aagtgcagaa taagacaatt gatggcattc 480
ttctcttgat tgagagggaa aggaatggtg aagcaattga tagaagttta cttcgaagcc 540
ttttaagcat gctgtctgat ttgcaaattt atcaagattc ttttgaacaa cgatttttgg 600
aagaaactaa ccggctctat gcagctgaag gccaaaaatt aatgcaagaa agagaggttc 660
ctgaatatct acatcatgtt aacaaacgtc tagaagaaga agcagacaga cttattactt 720
acttagatca gaccacccag aagtcattaa ttgctactgt agaaaaacaa cttctaggtg 780
aacacttaac agcaattctt cagaaaggtt taaataacct ccttgatgaa aaccgaattc 840
aagatttgtc tcttctgtat cagctcttca gtagagttcg aggtggagtt caggttcttt 900
tgcagcagtg gatcgaatat atcaaggcat ttggcagcac tattgtaatt aatcctgaaa 960
aagataaaac catggttcaa gaattgctgg attttaaaga taaggttgac catataattg 1020
atatctgctt tctgaagaat gagaaattta tcaatgccat gaaagaagca tttgaaacgt 1080
tcattaacaa aagaccaaat aaaccagctg aacttatagc taagtatgta gattcaaaac 1140
ttcgtgcagg caacaaagaa gctacagatg aagaacttga gaaatgttg gataaaatta 1200
tgatcatatt tagatttatc tatggcaagg atgttttga ggccttctat aagaaagatt 1260
tagccaagcg cctgttagtc ggaaagagtg catctgtaga tgctgaaaaa tcaatgctgt 1320
ccaaacttaa acatgaatgc ggagctgctt tcaccagcaa acttgaagga atgtttaaag 1380
acatggaact ttctaaagac atcatgattc agttcaaaca gtatatgcag aatcagaatg 1440
ttccgggaaa tattgagtta actgtgaata tcctgacaat gggctattgg ccgacatatg 1500
tgcctatgga agttcattta ccaccagaga tggtaaaact tcaggagatt ttcaagacat 1560
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tgttaaaagc agaatttaaa gagggtaaaa aggaactcca ggtctctctt tttcaaacac 1680
tggtgctgct aatgtttaat gagggagagg agttcagttt agaagagatc aagcaggcaa 1740
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```

                                       324
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atgatgattt caaacataaa cttttcagga taaagatcaa tcaaatccag atgaaagaaa 1920
cggttgaaga acaagcaagc actacagaaa gagtatttca agacagacag tatcaaattg 1980
atgctgcaat tgttcgaatt atgaagatga gaaagacact tagccacaat ctccttgttt 2040
cagaagtgta caaccagttg aaatttccag taaagcctgc tgatcttaag aagagaatag 2100
aatctttaat tgaccgggac tacatggaaa gagataaaga aaatccaaac cagtacaact 2160
atattgcata gaatgttggc cttgcagcat ttggtgtcat atgcagtagc cagtggataa 2220
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cactgatttt tttttgtttt tattttgttt ccttgtttct atttccttga agctttgaag 3540
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tgccacagca tatttccttg cctgttggag ccgttaggaa gattacctat gtcctaatct 3660
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gctattttgt ttaccctctc ttcataccgg accatcaaca acagtgttct aactcatccc 3960
tgatggtctg tgagatgtag actattacac aagattcaag ttactcgtaa gcaacttta 4020
gatagagttg gtcctgttag gaggagactc ttgatgtcac cttcagtatc ttgaaagcgg 4080
gtcccctccc cgaggctctt aattctttga aaacttgatg ctgtttcagc tgaaaaatta 4140
gcaagactgt taaaaaaaaa aagttgaggg gagctgttta agaaactgaa aagtaattgc 4200
aaactacatt ggataattgt gactttcagt tgttgttctg tatcagttga attttgtgc 4260
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<210> 336
<211> 717
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 863406CD1

<400> 336
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Met Ile Asp Pro Asp Phe Ala Asp Lys Pro Lys Leu Pro Glu Asn
 1               5                10                 15
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             20              25              30
Ile Gln Asn Ser Thr Ser Ile Lys Tyr Asn Leu Glu Glu Leu Tyr
             35              40              45
Gln Ala Val Glu Asn Leu Cys Ser Tyr Lys Ile Ser Ala Asn Leu
             50              55              60
Tyr Lys Gln Leu Arg Gln Ile Cys Glu Asp His Ile Lys Ala Gln
             65              70              75
Ile His Gln Phe Arg Glu Asp Ser Leu Asp Ser Val Leu Phe Leu
             80              85              90
Lys Lys Ile Asp Arg Cys Trp Gln Asn His Cys Arg Gln Met Ile
             95             100             105
Met Ile Arg Ser Ile Phe Leu Phe Leu Asp Arg Thr Tyr Val Leu
            110             115             120
Gln Asn Ser Met Leu Pro Ser Ile Trp Asp Met Gly Leu Glu Leu
            125             130             135
Phe Arg Ala His Ile Ile Ser Asp Gln Lys Val Gln Asn Lys Thr
            140             145             150
Ile Asp Gly Ile Leu Leu Leu Ile Glu Arg Glu Arg Asn Gly Glu
            155             160             165
Ala Ile Asp Arg Ser Leu Leu Arg Ser Leu Leu Ser Met Leu Ser
            170             175             180
Asp Leu Gln Ile Tyr Gln Asp Ser Phe Glu Gln Arg Phe Leu Glu
            185             190             195
Glu Thr Asn Arg Leu Tyr Ala Ala Glu Gly Gln Lys Leu Met Gln
            200             205             210
Glu Arg Glu Val Pro Glu Tyr Leu His His Val Asn Lys Arg Leu
            215             220             225
Glu Glu Glu Ala Asp Arg Leu Ile Thr Tyr Leu Asp Gln Thr Thr
            230             235             240
Gln Lys Ser Leu Ile Ala Thr Val Glu Lys Gln Leu Leu Gly Glu
            245             250             255
His Leu Thr Ala Ile Leu Gln Lys Gly Leu Asn Asn Leu Leu Asp
            260             265             270
Glu Asn Arg Ile Gln Asp Leu Ser Leu Leu Tyr Gln Leu Phe Ser
            275             280             285
Arg Val Arg Gly Gly Val Gln Val Leu Leu Gln Gln Trp Ile Glu
            290             295             300
Tyr Ile Lys Ala Phe Gly Ser Thr Ile Val Ile Asn Pro Glu Lys
            305             310             315
Asp Lys Thr Met Val Gln Glu Leu Leu Asp Phe Lys Asp Lys Val
            320             325             330
Asp His Ile Ile Asp Ile Cys Phe Leu Lys Asn Glu Lys Phe Ile
            335             340             345
Asn Ala Met Lys Glu Ala Phe Glu Thr Phe Ile Asn Lys Arg Pro
            350             355             360
Asn Lys Pro Ala Glu Leu Ile Ala Lys Tyr Val Asp Ser Lys Leu
            365             370             375
Arg Ala Gly Asn Lys Glu Ala Thr Asp Glu Glu Leu Glu Lys Met
            380             385             390
Leu Asp Lys Ile Met Ile Ile Phe Arg Phe Ile Tyr Gly Lys Asp
            395             400             405
Val Phe Glu Ala Phe Tyr Lys Lys Asp Leu Ala Lys Arg Leu Leu
            410             415             420
Val Gly Lys Ser Ala Ser Val Asp Ala Glu Lys Ser Met Leu Ser
            425             430             435
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326

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Lys Leu Lys His Glu Cys Gly Ala Ala Phe Thr Ser Lys Leu Glu
            440                 445                 450
Gly Met Phe Lys Asp Met Glu Leu Ser Lys Asp Ile Met Ile Gln
            455                 460                 465
Phe Lys Gln Tyr Met Gln Asn Gln Asn Val Pro Gly Asn Ile Glu
            470                 475                 480
Leu Thr Val Asn Ile Leu Thr Met Gly Tyr Trp Pro Thr Tyr Val
            485                 490                 495
Pro Met Glu Val His Leu Pro Pro Glu Met Val Lys Leu Gln Glu
            500                 505                 510
Ile Phe Lys Thr Phe Tyr Leu Gly Lys His Ser Gly Arg Lys Leu
            515                 520                 525
Gln Trp Gln Ser Thr Leu Gly His Cys Val Leu Lys Ala Glu Phe
            530                 535                 540
Lys Glu Gly Lys Lys Glu Leu Gln Val Ser Leu Phe Gln Thr Leu
            545                 550                 555
Val Leu Leu Met Phe Asn Glu Gly Glu Glu Phe Ser Leu Glu Glu
            560                 565                 570
Ile Lys Gln Ala Thr Gly Ile Glu Asp Gly Glu Leu Arg Arg Thr
            575                 580                 585
Leu Gln Ser Leu Ala Cys Gly Lys Ala Arg Val Leu Ala Lys Asn
            590                 595                 600
Pro Lys Gly Lys Asp Ile Glu Asp Gly Asp Lys Phe Ile Cys Asn
            605                 610                 615
Asp Asp Phe Lys His Lys Leu Phe Arg Ile Lys Ile Asn Gln Ile
            620                 625                 630
Gln Met Lys Glu Thr Val Glu Glu Gln Ala Ser Thr Thr Glu Arg
            635                 640                 645
Val Phe Gln Asp Arg Gln Tyr Gln Ile Asp Ala Ala Ile Val Arg
            650                 655                 660
Ile Met Lys Met Arg Lys Thr Leu Ser His Asn Leu Leu Val Ser
            665                 670·                675
Glu Val Tyr Asn Gln Leu Lys Phe Pro Val Lys Pro Ala Asp Leu
            680                 685                 690
Lys Lys Arg Ile Glu Ser Leu Ile Asp Arg Asp Tyr Met Glu Arg
            695                 700                 705
Asp Lys Glu Asn Pro Asn Gln Tyr Asn Tyr Ile Ala
            710                 715
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<210> 337
<211> 1646
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 413864.17

<400> 337
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caccaacaaa aagtcagcac aaagtgaact ttactgagta ttataatcag ctctttggaa 180
tgccagtttt tcatagtgat attaagatat ggttgttaaa ttagatcaca aaaattgctt 240
ttcttttaaa tagaaaatgt tatcaatcac acggatgaag aaggatttac tcctctgatg 300
tgggctgcag cacacgggca atagctgtg gtagagttcc tacttcagaa tgtaaggaaa 360
atgcctcaga aaatgtatat gtatagttac ttaagttaag tctttagtag agtttttata 420
tatccagcca gctagatata atggtagagg ctaccaaaaa aagtttaatg cttttcatat 480
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gtttccatta tttctttatt aagcccagaa cattaccagg cctagtgttg aactataatt 780
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<210> 338
<211> 3203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 350106.16

<400> 338
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ccgtttgggg gtgctaaagc tggtgttaag atcaatccca agaactatac tgataatgaa 840
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328
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ttcctggaga gaaacattat ggttattcca gatctctact tgaatgctgg aggagtgaca 1560
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<210> 339
<211> 866
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 399785.1

<220>
<221> unsure
<222> 18
<223> a, t, c, g, or other

<400> 339
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ccttttcagc caggcgcgcg ctgataccag gcccacgtca gctatttttg gagcctttta 180
cacgacagct ggaggagcgt ccttttttaat tttcccctttt tgtttggccg cccccacccc 240
caccccttcg ccttcatcgc tgcacttgag gctccatcct ggggcctctc cttgacttga 300
cctgccttgg caggcacatg ccctccctgc ctggctcact cgccgcagag acctggcagc 360
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gcttagggag ggaagacagt agtcgggtcg taataagcaa gacttagccc gagcctccgt 480
tgccaacgca ggctgccttg cttggcgtgt gggcatcggc ctgcccctc accctggcta 540
cccaacacag ctacaaaagg cagggaacaa tgtaggtccc ttggccctgc ctaatgcctg 600
ttgccatgga aacccctatc ctaatctggc caggagcccc ttgcagtgag ccaggagagt 660
```

329

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gaggaagagg ggatggggcc cgctggcctg aacctggcca gaggaggtaa tggttaaccg 720
gattgtggga gcagctgact agagccgggg gggtagggag gcttgggccc cagtcctacc 780
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atctgcccaa caactcccag gttcca                                      866
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<211> 4609
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 010498.19

<220>
<221> unsure
<222> 3013, 4582
<223> a, t, c, g, or other

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agaagtccac ctgcgaaaga caccatgttg ctactacagc cttagcaaca gcagtagccc 180
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gcaagtggcc agctaggatc ccgggggggca tcaagccatg attttttattt ctgtgctgga 420
tgcattagca gctgtgactt ggaaggtttt atcctgaagg agtggaattg ctgcagacgt 480
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330

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<211> 1542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255824.39

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gtcctggtga cgagtcccgc gttctctcct tgaatccact cgccagcccg ccgccctctg 180
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ccaagcggct gcagtccatt ggcaccgaga acaccgagga gaaccggcgc ttctaccgcc 420
agctgctgct gacagctgac gaccgcgtga acccctgcat tggggggtgtc atcctcttcc 480
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<210> 342
<211> 1520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706606CB1

<400> 342

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aatatccagc actgaccccg gagcagaaga aggagctgtc tgacatcgct caccgcatcg 300
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tgcccatcgt ggagcctgag atcctccctg atggggacca tgacttgaag cgctgccagt 840
atgtgaccga gaaggtgctg gctgctgtct acaaggctct gagtgaccac cacatctacc 900
tggaaggcac cttgctgaag cccaacatgg tcaccccagg ccatgcttgc actcagaagt 960
tttctcatga ggagattgcc atggcgaccg tcacagcgct gcgccgcaca gtgccccccg 1020
ctgtcactgg gatcaccttc ctgtctggag gccagagtga ggaggaggcg tccatcaacc 1080
tcaatgccat taacaagtgc cccctgctga agccctgggc cctgaccttc tcctacggcc 1140
gagccctgca ggcctctgcc ctgaaggcct ggggcgggaa gaaggagaac ctgaaggctg 1200
cgcaggagga gtatgtcaag cgagccctgg ccaacagcct tgcctgtcaa ggaaagtaca 1260
ctccgagcgg tcaggctggg gctgctgcca gcgagtccct cttcgtctct aaccacgcct 1320
attaagcgga ggtgttccca ggctgccccc aacactccag gccctgcccc ctcccactct 1380
```

332

```
tgaagaggag gccgcctcct cggggctcca ggctggcttg cccgcgctct ttcttccctc 1440
gtgacagtgg tgtgtggtgt cgtctgtgaa tgctaagtcc atcacccttt tcgggacact 1500
gccaaataaa cacgtatttc                                           1520
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<210> 343
<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706606CD1

<400> 343

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 1               5                  10                  15
Leu Ser Asp Ile Ala His Arg Ile Val Ala Pro Gly Lys Gly Ile
            20                  25                  30
Leu Ala Ala Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln
            35                  40                  45
Ser Ile Gly Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg
        50                  55                  60
Gln Leu Leu Leu Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly
            65                  70                  75
Gly Val Ile Leu Phe His Glu Thr Leu Tyr Gln Lys Ala Asp Asp
            80                  85                  90
Gly Arg Pro Phe Pro Gln Val Ile Lys Ser Lys Gly Gly Val Val
            95                 100                 105
Gly Ile Lys Val Asp Lys Gly Val Val Pro Leu Ala Gly Thr Asn
           110                 115                 120
Gly Glu Thr Thr Thr Gln Gly Leu Asp Gly Leu Ser Glu Arg Cys
           125                 130                 135
Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe Ala Lys Trp Arg Cys
           140                 145                 150
Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala Leu Ala Ile Met
           155                 160                 165
Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile Cys Gln Gln
           170                 175                 180
Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro Asp Gly
           185                 190                 195
Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val Leu
           200                 205                 210
Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
           215                 220                 225
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
           230                 235                 240
Thr Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr
           245                 250                 255
Ala Leu Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe
           260                 265                 270
Leu Ser Gly Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn
           275                 280                 285
Ala Ile Asn Lys Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe
           290                 295                 300
Ser Tyr Gly Arg Ala Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly
           305                 310                 315
```

333

```
Gly Lys Lys Glu Asn Leu Lys Ala Ala Gln Glu Glu Tyr Val Lys
                320                     325                 330
Arg Ala Leu Ala Asn Ser Leu Ala Cys Gln Gly Lys Tyr Thr Pro
                335                     340                 345
Ser Gly Gln Ala Gly Ala Ala Ala Ser Glu Ser Leu Phe Val Ser
                350                     355                 360
Asn His Ala Tyr
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<210> 344
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 118006.1

<400> 344
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tcagttaatc tgatcagggc catatgcctg aaatgaacaa aacaggataa ccattggaaa 120
gacatacaaa tatgaaaagt gtttgtaagt ggaccagcaa cc                  162
```

```
<210> 345
<211> 4143
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1039889.26

<400> 345
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gctgccaact ctcgcactct gttcttccgc cgctccgccg tcgcgtttct ctgccggtcg 120
caatggaaga agagatcgcc gcgctggtca ttgacaatgg ctccggcatg tgcaaagctg 180
gttttgctgg ggacgacgct ccccgagccg tgtttccttc catcgtcggg cgccccagac 240
accagggcgt catggtgggc atgggccaga aggactccta cgtgggcgac gaggcccaga 300
gcaagcgtgg catcctgacc ctgaagtacc ccattgagca tggcatcgtc accaactggg 360
acgacatgga gaagatctgg caccacacct tctacaacga gctgcgcgtg gccccggagg 420
agcacccagt gctgctgacc gaggcccccc tgaaccccaa ggccaacaga gagaagatga 480
ctcaggctct gttcctctcc cggcatttcc tccctgaagc ctccagatta tgtttgagac 540
cttcaacacc ccggccatgt acgtggccat ccaggccgtg ctgtccctct acgcctctgg 600
gcgcaccact ggcattgtca tggactctgg agacggggtc acccacacgg tgcccatcta 660
cgagggctac gccctccccc acgccatcct gcgtctggac ctggctggcc gggacctgac 720
cgactacctc atgaagatcc tcactgagcg aggctacagc ttcaccacca cggccgagcg 780
ggaaatcgtg cgcgacatca aggagaagct gtgctacgtc gccctggact tcgagcagga 840
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ggtcatcacc attggcaatg agcggttccg gtgtccggag gcgctgttcc agccttcctt 960
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cccgggcatt gccgacagga tgcagaagga gatcaccgcc ctggcgccca gcaccatgaa 1140
gatcaagatc atcgcacccc cagagcgcaa gtactcggtg tggatcggtg gctccatcct 1200
ggcctcactg tccaccttcc agcagatgtg gattagcaag caggagtacg acgagtcggg 1260
cccctccatc gtccaccgca aatgcttcta aacggactca gcagatgcgt agcatttgct 1320
gcatgggtta attgagaata gaaatttgcc cctggcaaat gcacacacct catgctagcc 1380
tcacgaaact ggaataagcc ttcgaaaaga aattgtcctt gaagcttgta tctgatatca 1440
```

```
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gtcacttcgt ggctaaggta agaacgtgct tgtggaagac aagtctgtgg cttggtgagt 1620
ctgtgtggcc agcagcctct gatctgtgca gggtattaac gtgtcagggc tgagtgttct 1680
gggatttctc tagaggctgg caagaaccag ttgtttgtc ttgcgggtct gtcagggttg 1740
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ttcttaattt atgtaaggtt tttttgtac gcaattctcg attctttgaa gagatgacaa 1920
caaaaaaaac cttacataaa ttaagaatga atacatttac aggcgtaaat gcaaaccgct 1980
tccaactcaa agcaagtaac agcccacggt gttctggcca aagacatcag ctaagaaagg 2040
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acgtgcttgt ggaagacaag tctgtggctt ggtgagtctg tgtggccagc agcctctgat 3780
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agtttccttt cttagctgat gtctttggcc agaacaccgt gggctgttaa cttgccttga 3960
gttggaagcg gtttgcattt acgcctgtaa atgtattcat tcttaattta tgtaaggttt 4020
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cgt                                                                4143
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<220>
<221> unsure
<222> 311, 324, 353, 382, 389
<223> a, t, c, g, or other

<400> 346
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cttttaggtt attattcttg gcgaaattca aaggatggct cctggttcat ccagtcgctt 180
tgtgccatgc tgaaacagta tgccgacaag cttgaattta tgcacattct tacccgggtt 240
aaccgaaagg tggcaacaga atttgagtcc ttttcctttg acgctacttt tcatgcaaag 300
aaacagattc natgtattgt ttcnatgctc ccaaaagaac tctattttta tcnctaaaga 360
atggttggtt ggggtttttt tnagtttgna tg 392
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```
<210> 347
<211> 1860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 662575CB1

<400> 347
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ccgcgccgac ttccagctcc gcccggtgcc cagcgttttc gcgccccaag agcaggaata 180
ccagcaggcc ttgttgctgg tggcggcctt ggcgggcctg ggcttgggggc tgagcctcat 240
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caagatcccc tcgcccgggg gaggctgcgt cacctggagc tgcattgtcg cccttctcgc 360
cggctgcact ggcattggca tcggtttcta tggcaacagt gagaccagtg atggggtgtc 420
ccagctcagc tctgcgctgc tgcacgccaa ccacacactc agcaccattg accacctggt 480
gttggagacg gtggagaggc tgggcgaggc ggtgaggaca gagctgacca ccctggagga 540
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ggctgcggcc cagcagctgc aggggctggc cttctggcag ggagtgcccc tgagcccccct 660
gcaggtggct gaaaatgtgt cctttgtgga ggagtacagg tggctggcct acgtcctcct 720
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gtggctggtg atcgtgatga cagtcatgag tctcctggtt ctcgtcctga gctgggggctc 840
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ttatgttctg aacctgaccc aggaggagac agggctcagc tcagacatcc tgagctatta 960
tctcctctgc aaccgggccg tctccaaccc cttccaacag aggctgactc tgtcccagcg 1020
agctctggcc aacatccact cccagctgct gggcctggag cgagaagctg tgcctcagtt 1080
cccttcagcg cagaagcctc tgctgtcctt ggaggagact ctgaatgtga cagaaggaaa 1140
tttccaccag ttggtggcac tgctacactg ccgcagcctg cacaaggact atggtgcagc 1200
cctgcggggc ctgtgcgaag acgccctgga aggcctgctc ttcctgctac tcttctccct 1260
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cccacccagt gacgactacg atgacacaga cgatgacgac cctttcaacc ctcaggaatc 1380
caagcgcttt gtgcagtggc agtcgtctat ctgagcccct cctccggct ggactggagc 1440
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ctgggctctg accactaaca ctcttggcca tggacagcct gcacaggacc gcctccctgc 1560
tcttggccac tgtgctccca tttctgtcct tggccttggg agtagctgag ggggcagact 1620
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ctgccggtcc catccttgga gggactaagc tggggggtggg ggacatgagt ccccctgctg 1740
cccctgccac atcccagtgg gctctgaccc cctgatctca actcgtggca ctaacttgga 1800
aaagggttga tttaaaataa aagggaagac tattttacaa aaaaaaaaaa aaaaaaaaaa 1860
```

336

<210> 348
<211> 450
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 662575CD1

<400> 348
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                20   25   30
Ser Val Phe Ala Pro Gln Glu Gln Glu Tyr Gln Gln Ala Leu Leu
                35   40   45
Leu Val Ala Ala Leu Ala Gly Leu Gly Leu Gly Leu Ser Leu Ile
                50   55   60
Phe Ile Ala Val Tyr Leu Ile Arg Phe Cys Cys Cys Arg Pro Pro
                65   70   75
Glu Pro Pro Gly Ser Lys Ile Pro Ser Pro Gly Gly Gly Cys Val
                80   85   90
Thr Trp Ser Cys Ile Val Ala Leu Leu Ala Gly Cys Thr Gly Ile
                95   100   105
Gly Ile Gly Phe Tyr Gly Asn Ser Glu Thr Ser Asp Gly Val Ser
                110   115   120
Gln Leu Ser Ser Ala Leu Leu His Ala Asn His Thr Leu Ser Thr
                125   130   135
Ile Asp His Leu Val Leu Glu Thr Val Glu Arg Leu Gly Glu Ala
                140   145   150
Val Arg Thr Glu Leu Thr Thr Leu Glu Glu Val Leu Glu Pro Arg
                155   160   165
Thr Glu Leu Val Ala Ala Ala Arg Gly Ala Arg Arg Gln Ala Glu
                170   175   180
Ala Ala Ala Gln Gln Leu Gln Gly Leu Ala Phe Trp Gln Gly Val
                185   190   195
Pro Leu Ser Pro Leu Gln Val Ala Glu Asn Val Ser Phe Val Glu
                200   205   210
Glu Tyr Arg Trp Leu Ala Tyr Val Leu Leu Leu Leu Leu Glu Leu
                215   220   225
Leu Val Cys Leu Phe Thr Leu Leu Gly Leu Ala Lys Gln Ser Lys
                230   235   240
Trp Leu Val Ile Val Met Thr Val Met Ser Leu Leu Val Leu Val
                245   250   255
Leu Ser Trp Gly Ser Met Gly Leu Glu Ala Ala Thr Ala Val Gly
                260   265   270
Leu Ser Asp Phe Cys Ser Asn Pro Asp Pro Tyr Val Leu Asn Leu
                275   280   285
Thr Gln Glu Glu Thr Gly Leu Ser Ser Asp Ile Leu Ser Tyr Tyr
                290   295   300
Leu Leu Cys Asn Arg Ala Val Ser Asn Pro Phe Gln Gln Arg Leu
                305   310   315
Thr Leu Ser Gln Arg Ala Leu Ala Asn Ile His Ser Gln Leu Leu
                320   325   330
Gly Leu Glu Arg Glu Ala Val Pro Gln Phe Pro Ser Ala Gln Lys
                335   340   345

```
Pro Leu Leu Ser Leu Glu Glu Thr Leu Asn Val Thr Glu Gly Asn
            350                 355                 360
Phe His Gln Leu Val Ala Leu Leu His Cys Arg Ser Leu His Lys
            365                 370                 375
Asp Tyr Gly Ala Ala Leu Arg Gly Leu Cys Glu Asp Ala Leu Glu
            380                 385                 390
Gly Leu Leu Phe Leu Leu Leu Phe Ser Leu Leu Ser Ala Gly Ala
            395                 400                 405
Leu Ala Thr Ala Leu Cys Ser Leu Pro Arg Ala Trp Ala Leu Phe
            410                 415                 420
Pro Pro Ser Asp Asp Tyr Asp Asp Thr Asp Asp Asp Pro Phe
            425                 430                 435
Asn Pro Gln Glu Ser Lys Arg Phe Val Gln Trp Gln Ser Ser Ile
            440                 445                 450
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<210> 349
<211> 875
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 027619.3

<220>
<221> unsure
<222> 844, 847
<223> a, t, c, g, or other

<400> 349
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tcttccatgg gaccctgcag ctgggccagg ccctcaacgg tgtgtacagg accacggagg 180
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gtggcacagc agcatcggct gcgacagatc caggagagac tccacacagc ggcgctccca 600
gcctgaatct gcctggatgg aactgaggac caatcatgct gcaaggaaca cttccacgcc 660
ccgtgaggcc cctgtgcagg gaggagctgc ctgttcactg ggatcagcca gggcgccggg 720
ccccacttct gagcacagag cagagacaga cgcaggcggg gacaaaggca gaggatgtag 780
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<210> 350
<211> 8731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235447.5

<400> 350
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gccataggga gccgcacggg gagcgggaaa gcggtcgcgg ccccaggcgg ggcggccggg 180
atggagcggg gccgcgagcc tgtggggaag gggctgtggc ggcgcctcga gcggctgcag 240
gttcttctgt gtggcagttc agaatgatgg atcaagctag atcagcattc tctaacttgt 300
ttggtggaga accattgtca tatacccggt tcagcctggc tcggcaagta gatggcgata 360
acagtcatgt ggagatgaaa cttgctgtag atgaagaaga aaatgctgac aataacacaa 420
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tgatcgtctt tttcttgatt ggatttatga ttggctactt gggctattgt aaaggggtag 540
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ttcgtgaatt taaactcagc aaagtctggc gtgatcaaca tttgttaag attcaggtca 840
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340

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341

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342

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<211> 1359
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<213> Homo sapiens

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<400> 355
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gtggatagaa aagaaagaga ctgaactgga acataagatt tcaaacgttg gctcgagccg 180
aagtggggac agcggcccag aagactgaga gccaaggaac cttgcatatg agttgtcttc 240
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agggaggtgt tgttggagga cagggagggg gcttctgtga agctgtttgc tgggaattct 360
cgttggttta cagaaaaaaa caattgatta atgattggct gtacattgct aagctacagg 420
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```
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<210> 356
<211> 548
<212> DNA
<213> Homo sapiens

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<222> 374, 491
<223> a, t, c, g, or other

<400> 356
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<211> 1770
<212> DNA
<213> Homo sapiens

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<210> 358
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<400> 358

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346

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<210> 359
<211> 3693
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1505038CB1

<400> 359

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348

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<210> 360
<211> 308
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1505038CD1

<400> 360

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Cys Ala Asn Val Phe Cys Gly Ala Gly Arg Glu Cys Ala Val Thr
                35                  40                  45
Glu Lys Gly Glu Pro Thr Cys Leu Cys Ile Glu Gln Cys Lys Pro
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His Lys Arg Pro Val Cys Gly Ser Asn Gly Lys Thr Tyr Leu Asn
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His Cys Glu Leu His Arg Asp Ala Cys Leu Thr Gly Ser Lys Ile
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Gln Val Asp Tyr Asp Gly His Cys Lys Glu Lys Lys Ser Val Ser
                95                  100                 105
Pro Ser Ala Ser Pro Val Val Cys Tyr Gln Ser Asn Arg Asp Glu
                110                 115                 120
Leu Arg Arg Arg Ile Ile Gln Trp Leu Glu Ala Glu Ile Ile Ser
                125                 130                 135
Asp Gly Trp Phe Ser Lys Gly Ser Asn Tyr Ser Glu Ile Leu Asp
                140                 145                 150
Lys Tyr Phe Lys Asn Phe Asp Asn Gly Asp Ser Arg Leu Asp Ser
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Ser Glu Phe Leu Lys Phe Val Glu Gln Asn Glu Thr Ala Ile Asn
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Ile Thr Thr Tyr Pro Asp Gln Glu Asn Asn Lys Leu Leu Arg Gly
                185                 190                 195
Leu Cys Val Asp Ala Leu Ile Glu Leu Ser Asp Glu Asn Ala Asp
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Trp Lys Leu Ser Phe Gln Glu Phe Leu Lys Cys Leu Asn Pro Ser
                215                 220                 225
Phe Asn Pro Pro Glu Lys Lys Cys Ala Leu Glu Asp Glu Thr Tyr
                230                 235                 240
Ala Asp Gly Ala Glu Thr Glu Val Asp Cys Asn Arg Cys Val Cys
                245                 250                 255
Ala Cys Gly Asn Trp Val Cys Thr Ala Met Thr Cys Asp Gly Lys
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Asn Gln Lys Gly Ala Gln Thr Gln Thr Glu Glu Glu Met Thr Arg
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349

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<211> 3123
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> 29, 208, 234, 241, 244, 257, 279, 297, 307-308, 310, 327, 330, 332
<223> a, t, c, g, or other

<400> 361
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<210> 365
<211> 368

354

PA-0035 US

<210> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 407999.1c

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<221> unsure
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<223> a, t, c, g, or other

<400> 365
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<210> 366
<211> 6348
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<400> 366
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355

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356

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<210> 367
<211> 1977
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1719478CD1

<400> 367

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Lys Ser Lys Glu Pro Lys Glu Glu Lys Lys Asp Asp Asp Glu Glu
                35                  40                  45
Ala Pro Lys Pro Ser Ser Asp Leu Glu Ala Gly Lys Gln Leu Pro
                50                  55                  60
Phe Ile Tyr Gly Asp Ile Pro Pro Gly Met Val Ser Glu Pro Leu
                65                  70                  75
Glu Asp Leu Asp Pro Tyr Tyr Ala Asp Lys Lys Thr Phe Ile Val
                80                  85                  90
Leu Asn Lys Gly Lys Thr Ile Phe Arg Phe Asn Ala Thr Pro Ala
                95                  100                 105
Leu Tyr Met Leu Ser Pro Phe Ser Pro Leu Arg Arg Ile Ser Ile
                110                 115                 120
Lys Ile Leu Val His Ser Leu Phe Ser Met Leu Ile Met Cys Thr
                125                 130                 135
Ile Leu Thr Asn Cys Ile Phe Met Thr Met Asn Asn Pro Pro Asp
                140                 145                 150
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Trp Thr Lys Asn Val Glu Tyr Thr Phe Thr Gly Ile Tyr Thr Phe
             155   160   165

Glu Ser Leu Val Lys Ile Leu Ala Arg Gly Phe Cys Val Gly Glu
             170   175   180

Phe Thr Phe Leu Arg Asp Pro Trp Asn Trp Leu Asp Phe Val Val
             185   190   195

Ile Val Phe Ala Tyr Leu Thr Glu Phe Val Asn Leu Gly Asn Val
             200   205   210

Ser Ala Leu Arg Thr Phe Arg Val Leu Arg Ala Leu Lys Thr Ile
             215   220   225

Ser Val Ile Pro Gly Leu Lys Thr Ile Val Gly Ala Leu Ile Gln
             230   235   240

Ser Val Lys Lys Leu Ser Asp Val Met Ile Leu Thr Val Phe Cys
             245   250   255

Leu Ser Val Phe Ala Leu Ile Gly Leu Gln Leu Phe Met Gly Asn
             260   265   270

Leu Lys His Lys Cys Phe Arg Asn Ser Leu Glu Asn Asn Glu Thr
             275   280   285

Leu Glu Ser Ile Met Asn Thr Leu Glu Ser Glu Glu Asp Phe Arg
             290   295   300

Lys Tyr Phe Tyr Tyr Leu Glu Gly Ser Lys Asp Ala Leu Leu Cys
             305   310   315

Gly Phe Ser Thr Asp Ser Gly Gln Cys Pro Glu Gly Tyr Thr Cys
             320   325   330

Val Lys Ile Gly Arg Asn Pro Asp Tyr Gly Tyr Thr Ser Phe Asp
             335   340   345

Thr Phe Ser Trp Ala Phe Leu Ala Leu Phe Arg Leu Met Thr Gln
             350   355   360

Asp Tyr Trp Glu Asn Leu Tyr Gln Gln Thr Leu Arg Ala Ala Gly
             365   370   375

Lys Thr Tyr Met Ile Phe Phe Val Val Val Ile Phe Leu Gly Ser
             380   385   390

Phe Tyr Leu Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
             395   400   405

Glu Glu Gln Asn Gln Ala Asn Ile Glu Glu Ala Lys Gln Lys Glu
             410   415   420

Leu Glu Phe Gln Gln Met Leu Asp Arg Leu Lys Lys Glu Gln Glu
             425   430   435

Glu Ala Glu Ala Ile Ala Ala Ala Ala Ala Glu Tyr Thr Ser Ile
             440   445   450

Arg Arg Ser Arg Ile Met Gly Leu Ser Glu Ser Ser Ser Glu Thr
             455   460   465

Ser Lys Leu Ser Ser Lys Ser Ala Lys Glu Arg Arg Asn Arg Arg
             470   475   480

Lys Lys Lys Asn Gln Lys Lys Leu Ser Ser Gly Glu Glu Lys Gly
             485   490   495

Asp Ala Glu Lys Leu Ser Lys Ser Glu Ser Glu Asp Ser Ile Arg
             500   505   510

Arg Lys Ser Phe His Leu Gly Val Glu Gly His Arg Arg Ala His
             515   520   525

Glu Lys Arg Leu Ser Thr Pro Asn Gln Ser Pro Leu Ser Ile Arg
             530   535   540

Gly Ser Leu Phe Ser Ala Arg Arg Ser Ser Arg Thr Ser Leu Phe
             545   550   555

Ser Phe Lys Gly Arg Gly Arg Asp Ile Gly Ser Glu Thr Glu Phe
             560   565   570

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Ala Asp Asp Glu His Ser Ile Phe Gly Asp Asn Glu Ser Arg Arg
            575             580                 585
Gly Ser Leu Phe Val Pro His Arg Pro Gln Glu Arg Arg Ser Ser
            590             595                 600
Asn Ile Ser Gln Ala Ser Arg Ser Pro Pro Met Leu Pro Val Asn
            605             610                 615
Gly Lys Met His Ser Ala Val Asp Cys Asn Gly Val Val Ser Leu
            620             625                 630
Val Asp Gly Arg Ser Ala Leu Met Leu Pro Asn Gly Gln Leu Leu
            635             640                 645
Pro Glu Gly Thr Thr Asn Gln Ile His Lys Lys Arg Arg Cys Ser
            650             655                 660
Ser Tyr Leu Leu Ser Glu Asp Met Leu Asn Asp Pro Asn Leu Arg
            665             670                 675
Gln Arg Ala Met Ser Arg Ala Ser Ile Leu Thr Asn Thr Val Glu
            680             685                 690
Glu Leu Glu Glu Ser Arg Gln Lys Cys Pro Pro Trp Trp Tyr Arg
            695             700                 705
Phe Ala His Lys Phe Leu Ile Trp Asn Cys Ser Pro Tyr Trp Ile
            710             715                 720
Lys Phe Lys Lys Cys Ile Tyr Phe Ile Val Met Asp Pro Phe Val
            725             730                 735
Asp Leu Ala Ile Thr Ile Cys Ile Val Leu Asn Thr Leu Phe Met
            740             745                 750
Ala Met Glu His His Pro Met Thr Glu Glu Phe Lys Asn Val Leu
            755             760                 765
Ala Ile Gly Asn Leu Val Phe Thr Gly Ile Phe Ala Ala Glu Met
            770             775                 780
Val Leu Lys Leu Ile Ala Met Asp Pro Tyr Glu Tyr Phe Gln Val
            785             790                 795
Gly Trp Asn Ile Phe Asp Ser Leu Ile Val Thr Leu Ser Leu Val
            800             805                 810
Glu Leu Phe Leu Ala Asp Val Glu Gly Leu Ser Val Leu Arg Ser
            815             820                 825
Phe Arg Leu Leu Arg Val Phe Lys Leu Ala Lys Ser Trp Pro Thr
            830             835                 840
Leu Asn Met Leu Ile Lys Ile Ile Gly Asn Ser Val Gly Ala Leu
            845             850                 855
Gly Asn Leu Thr Leu Val Leu Ala Ile Ile Val Phe Ile Phe Ala
            860             865                 870
Val Val Gly Met Gln Leu Phe Gly Lys Ser Tyr Lys Glu Cys Val
            875             880                 885
Cys Lys Ile Asn Asp Asp Cys Thr Leu Pro Arg Trp His Met Asn
            890             895                 900
Asp Phe Phe His Ser Phe Leu Ile Val Phe Arg Val Leu Cys Gly
            905             910                 915
Glu Trp Ile Glu Thr Met Trp Asp Cys Met Glu Val Ala Gly Gln
            920             925                 930
Ala Met Cys Leu Ile Val Tyr Met Met Val Met Val Ile Gly Asn
            935             940                 945
Leu Val Val Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
            950             955                 960
Ser Ser Asp Asn Leu Thr Ala Ile Glu Glu Asp Pro Asp Ala Asn
            965             970                 975
Asn Leu Gln Ile Ala Val Thr Arg Ile Lys Lys Gly Ile Asn Tyr
            980             985                 990
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              995                 1000                1005
Lys Pro Lys Ile Ser Arg Glu Ile Arg Gln Ala Glu Asp Leu Asn
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Thr Lys Lys Glu Asn Tyr Ile Ser Asn His Thr Leu Ala Glu Met
             1025                 1030                1035
Ser Lys Gly His Asn Phe Leu Lys Glu Lys Asp Lys Ile Ser Gly
             1040                 1045                1050
Phe Gly Ser Ser Val Asp Lys His Leu Met Glu Asp Ser Asp Gly
             1055                 1060                1065
Gln Ser Phe Ile His Asn Pro Ser Leu Thr Val Thr Val Pro Ile
             1070                 1075                1080
Ala Pro Gly Glu Ser Asp Leu Glu Asn Met Asn Ala Glu Glu Leu
             1085                 1090                1095
Ser Ser Asp Ser Asp Ser Glu Tyr Ser Lys Val Arg Leu Asn Arg
             1100                 1105                1110
Ser Ser Ser Ser Glu Cys Ser Thr Val Asp Asn Pro Leu Pro Gly
             1115                 1120                1125
Glu Gly Glu Glu Ala Glu Ala Glu Pro Met Asn Ser Asp Glu Pro
             1130                 1135                1140
Glu Ala Cys Phe Thr Asp Gly Cys Val Arg Arg Phe Ser Cys Cys
             1145                 1150                1155
Gln Val Asn Ile Glu Ser Gly Lys Gly Lys Ile Trp Trp Asn Ile
             1160                 1165                1170
Arg Lys Thr Cys Tyr Lys Ile Val Glu His Ser Trp Phe Glu Ser
             1175                 1180                1185
Phe Ile Val Leu Met Ile Leu Leu Ser Ser Gly Ala Leu Ala Phe
             1190                 1195                1200
Glu Asp Ile Tyr Ile Glu Arg Lys Lys Thr Ile Lys Ile Ile Leu
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Glu Tyr Ala Asp Lys Ile Phe Thr Tyr Ile Phe Ile Leu Glu Met
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Ala Trp Cys Trp Leu Asp Phe Leu Ile Val Asp Val Ser Leu Val
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Thr Leu Val Ala Asn Thr Leu Gly Tyr Ser Asp Leu Gly Pro Ile
             1265                 1270                1275
Lys Ser Leu Arg Thr Leu Arg Ala Leu Arg Pro Leu Arg Ala Leu
             1280                 1285                1290
Ser Arg Phe Glu Gly Met Arg Val Val Val Asn Ala Leu Ile Gly
             1295                 1300                1305
Ala Ile Pro Ser Ile Met Asn Val Leu Leu Val Cys Leu Ile Phe
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Trp Leu Ile Phe Ser Ile Met Gly Val Asn Leu Phe Ala Gly Lys
             1325                 1330                1335
Phe Tyr Glu Cys Ile Asn Thr Thr Asp Gly Ser Arg Phe Pro Ala
             1340                 1345                1350
Ser Gln Val Pro Asn Arg Ser Glu Cys Phe Ala Leu Met Asn Val
             1355                 1360                1365
Ser Gln Asn Val Arg Trp Lys Asn Leu Lys Val Asn Phe Asp Asn
             1370                 1375                1380
Val Gly Leu Gly Tyr Leu Ser Leu Leu Gln Val Ala Thr Phe Lys
             1385                 1390                1395
Gly Trp Thr Ile Ile Met Tyr Ala Ala Val Asp Ser Val Asn Val
             1400                 1405                1410
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Phe Ile Gly Val Ile Ile Asp Asn Phe Asn Gln Gln Lys Lys Lys
            1445                1450                1455
Leu Gly Gly Gln Asp Ile Phe Met Thr Glu Glu Gln Lys Lys Tyr
            1460                1465                1470
Tyr Asn Ala Met Lys Lys Leu Gly Ser Lys Lys Pro Gln Lys Pro
            1475                1480                1485
Ile Pro Arg Pro Gly Asn Lys Ile Gln Gly Cys Ile Phe Asp Leu
            1490                1495                1500
Val Thr Asn Gln Ala Phe Asp Ile Ser Ile Met Val Leu Ile Cys
            1505                1510                1515
Leu Asn Met Val Thr Met Met Val Glu Lys Glu Gly Gln Ser Gln
            1520                1525                1530
His Met Thr Glu Val Leu Tyr Trp Ile Asn Val Val Phe Ile Ile
            1535                1540                1545
Leu Phe Thr Gly Glu Cys Val Leu Lys Leu Ile Ser Leu Arg His
            1550                1555                1560
Tyr Tyr Phe Thr Val Gly Trp Asn Ile Phe Asp Phe Val Val Val
            1565                1570                1575
Ile Ile Ser Ile Val Gly Met Phe Leu Ala Asp Leu Ile Glu Thr
            1580                1585                1590
Tyr Phe Val Ser Pro Thr Leu Phe Arg Val Ile Arg Leu Ala Arg
            1595                1600                1605
Ile Gly Arg Ile Leu Arg Leu Val Lys Gly Ala Lys Gly Ile Arg
            1610                1615                1620
Thr Leu Leu Phe Ala Leu Met Met Ser Leu Pro Ala Leu Phe Asn
            1625                1630                1635
Ile Gly Leu Leu Leu Phe Leu Val Met Phe Ile Tyr Ala Ile Phe
            1640                1645                1650
Gly Met Ser Asn Phe Ala Tyr Val Lys Lys Glu Asp Gly Ile Asn
            1655                1660                1665
Asp Met Phe Asn Phe Glu Thr Phe Gly Asn Ser Met Ile Cys Leu
            1670                1675                1680
Phe Gln Ile Thr Thr Ser Ala Gly Trp Asp Gly Leu Leu Ala Pro
            1685                1690                1695
Ile Leu Asn Ser Lys Pro Pro Asp Cys Asp Pro Lys Lys Val His
            1700                1705                1710
Pro Gly Ser Ser Val Glu Gly Asp Cys Gly Asn Pro Ser Val Gly
            1715                1720                1725
Ile Phe Tyr Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val
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Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala
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Thr Glu Glu Ser Thr Glu Pro Leu Ser Glu Asp Asp Phe Glu Met
            1760                1765                1770
Phe Tyr Glu Val Trp Glu Lys Phe Asp Pro Asp Ala Thr Gln Phe
            1775                1780                1785
Ile Glu Phe Ser Lys Leu Ser Asp Phe Ala Ala Ala Leu Asp Pro
            1790                1795                1800
Pro Leu Leu Ile Ala Lys Pro Asn Lys Val Gln Leu Ile Ala Met
            1805                1810                1815
Asp Leu Pro Met Val Ser Gly Asp Arg Ile His Cys Leu Asp Ile
            1820                1825                1830
```

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```
Leu Phe Ala Phe Thr Lys Arg Val Leu Gly Glu Ser Gly Glu Met
                1835                1840                1845
Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe Met Ser Ala Asn
                1850                1855                1860
Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr Thr Thr Leu Lys Arg
                1865                1870                1875
Lys Gln Glu Asp Val Ser Ala Thr Val Ile Gln Arg Ala Tyr Arg
                1880                1885                1890
Arg Tyr Arg Leu Arg Gln Asn Val Lys Asn Ile Ser Ser Ile Tyr
                1895                1900                1905
Ile Lys Asp Gly Asp Arg Asp Asp Asp Leu Leu Asn Lys Lys Asp
                1910                1915                1920
Met Ala Phe Asp Asn Val Asn Glu Asn Ser Ser Pro Glu Lys Thr
                1925                1930                1935
Asp Ala Thr Ser Ser Thr Thr Ser Pro Pro Ser Tyr Asp Ser Val
                1940                1945                1950
Thr Lys Pro Asp Lys Glu Lys Tyr Glu Gln Asp Arg Thr Glu Lys
                1955                1960                1965
Glu Asp Lys Gly Lys Asp Ser Lys Glu Ser Lys Lys
                1970                1975
```

<210> 368
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 351157.2

<400> 368

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agcggatccg cacggccttc tcgccctcgc agctgctgcg gctggagctc gccttcgaga 60
agaaccacta cgtggtgggc gccgagcgga agcagctggc cggcagtctc agcctctccg 120
agacgcaggt ccgacgtgtt ggagtggggc tcagcgaccc tcagcctagc tgctgccctg 180
gaggtggatt tcagtctctg cgtgccggcc ggctcccaga gttgcgagag gccggctccg 240
cggtctccca gctacctccc ggctgacttt tcaccttccg ctccccttttc ctcctagtct 300
cgaccctact acaccaccgt cccctcccaa gtcccgggca gtgagaagat gccccggcatg 360
gggggcagcc ggagcctccc tttagcagcc agagtaggaa gggggcttag tgagggagcc 420
cagacccaaa cttcatccgc agctttcttc ggcggacctt accctctcct ccttcagtgg 480
cattttggca tctattgtcg tcatatctgt ctgctgcccc acttaatcta caaatcgctc 540
acgggtcgga ggcaggaccc gtgcgttttc agatgtacta gctgggctgt ctaactgca 600
gggaaaaagc ttacaaaaca agagttaatt ttaaaaacgt ttcaaagaaa gat       653
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<210> 369
<211> 2309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088957CB1

<400> 369

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acacgccttt ggcacaatga agtgggtaac ctttatttcc cttctttttc tctttagctc 60
ggcttattcc aggggtgtgt ttcgtcgaga tgcacacaag agtgaggttg ctcatcggtt 120
taaagatttg ggagaagaaa atttcaaagc cttggtgttg attgcctttg ctcagtatct 180
tcagcagtgt ccatttgaag atcatgtaaa attagtgaat gaagtaactg aatttgcaaa 240
```

```
aacatgtgtt gctgatgagt cagctgaaaa ttgtgacaaa tcacttcata ccctttttgg 300
agacaaatta tgcacagttg caactcttcg tgaaacctat ggtgaaatgg ctgactgctg 360
tgcaaaacaa gaacctgaga gaaatgaatg cttcttgcaa cacaaagatg acaacccaaa 420
cctcccccga ttggtgagac cagaggttga tgtgatgtgc actgcttttc atgacaatga 480
agagacattt ttgaaaaaat acttatatga aattgccaga agacatcctt acttttatgc 540
cccggaactc ctttttctttg ctaaaaggta taaagctgct tttacagaat gttgccaagc 600
tgctgataaa gctgcctgcc tgttgccaaa gctcgatgaa cttcgggatg aagggaaggc 660
ttcgtctgcc aaacagagac tcaagtgtgc cagtctccaa aaatttggag aaagagcttt 720
caaagcatgg gcagtagctc gcctgagcca gagatttccc aaagctgagt ttgcagaagt 780
ttccaagtta gtgacagatc ttaccaaagt ccacacggaa tgctgccatg agatctgct 840
tgaatgtgct gatgacaggg cggaccttgc caagtatatc tgtgaaaatc aagattcgat 900
ctccagtaaa ctgaaggaat gctgtgaaaa acctctgttg gaaaaatccc actgcattgc 960
cgaagtggaa aatgatgaga tgcctgctga cttgccttca ttagctgctg attttgttga 1020
aagtaaggat gtttgcaaaa actatgctga ggcaaaggat gtcttcctgg gcatgttttt 1080
gtatgaatat gcaagaaggc atcctgatta ctctgtcgtg ctgctgctga acttgccaa 1140
gacatatgaa accactctag agaagtgctg tgccgctgca gatcctcatg aatgctatgc 1200
caaagtgttc gatgaattta aacctcttgt ggaagagcct cagaatttaa tcaaacaaaa 1260
ttgtgagctt tttgagcagc ttggagagta caaattccag aatgcgctat tagttcgtta 1320
caccaagaaa gtaccccaag tgtcaactcc aactcttgta gaggtctcaa gaaacctagg 1380
aaaagtgggc agcaaatgtt gtaaacatcc tgaagcaaaa agaatgccct gtgcagaaga 1440
ctatctatcc gtggtcctga accagttatg tgtgttgcat gagaaaacgc cagtaagtga 1500
cagagtcacc aaatgctgca cagaatcctt ggtgaacagg cgaccatgct tttcagctct 1560
ggaagtcgat gaaacatacg ttcccaaaga gtttaatgct gaaacattca ccttccatgc 1620
agatatatgc acactttctg agaaggagag acaaatcaag aaacaaactg cacttgttga 1680
gctcgtgaaa cacaagccca aggcaacaaa agagcaactg aaagctgtta tggatgattt 1740
cgcagctttt gtagagaagt gctgcaaggc tgacgataag gagacctgct ttgccgagga 1800
gggtaaaaaa cttgttgctg caagtcaagc tgccttaggc ttataacatc acatttaaaa 1860
gcatctcagc ctaccatgag aataagagaa agaaaatgaa gatcaaaagc ttattcatct 1920
gttttttcttt ttcgttggtg taaagccaac accctgtcta aaaaacataa atttctttaa 1980
tcattttgcc tcttttctct gtgcttcaat taataaaaaa tggaaagaat ctaatagagt 2040
ggtacagcac tgttattttt caaagatgtg ttgctatcct gaaaattctg taggttctgt 2100
ggaagttcca gtgttctctc ttattccact tcggtagagg atttctagtt tcttgtgggc 2160
taattaaata aatcattaat actcttctaa gttatggatt ataaacattc aaaataatat 2220
tttgacatta tgataattct gaataaaaga acaaaaacca tggtataggt aaaaaaaaaa 2280
agagaaaaaa ggggaaagaa aaattatgc                                    2309
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<210> 370
<211> 609
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088957CD1

<400> 370
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Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser
  1               5                  10                  15
Ala Tyr Ser Arg Gly Val Phe Arg Arg Asp Ala His Lys Ser Glu
                 20                  25                  30
Val Ala His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala
                 35                  40                  45
Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe
                 50                  55                  60
Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys
                 65                  70                  75
```

```
Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu
            80                      85                      90
His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu Arg
            95                     100                     105
Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
           110                     115                     120
Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn
           125                     130                     135
Leu Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala
           140                     145                     150
Phe His Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu
           155                     160                     165
Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe
           170                     175                     180
Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala
           185                     190                     195
Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg
           200                     205                     210
Asp Glu Gly Lys Ala Ser Ser Ala Lys Gln Arg Leu Lys Cys Ala
           215                     220                     225
Ser Leu Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val
           230                     235                     240
Ala Arg Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val
           245                     250                     255
Ser Lys Leu Val Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys
           260                     265                     270
His Gly Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala
           275                     280                     285
Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys
           290                     295                     300
Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His Cys Ile Ala
           305                     310                     315
Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser Leu Ala
           320                     325                     330
Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala Glu
           335                     340                     345
Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
           350                     355                     360
Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys
           365                     370                     375
Thr Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro
           380                     385                     390
His Glu Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val
           395                     400                     405
Glu Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu
           410                     415                     420
Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr
           425                     430                     435
Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val
           440                     445                     450
Ser Arg Asn Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His Pro
           455                     460                     465
Glu Ala Lys Arg Met Pro Cys Ala Glu Asp Tyr Leu Ser Val Val
           470                     475                     480
Leu Asn Gln Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Asp
           485                     490                     495
```

364

```
Arg Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro
                500                 505                 510
Cys Phe Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu
                515                 520                 525
Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu
                530                 535                 540
Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu
                545                 550                 555
Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu Lys Ala
                560                 565                 570
Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys Ala
                575                 580                 585
Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
                590                 595                 600
Ala Ala Ser Gln Ala Ala Leu Gly Leu
                605
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<210> 371
<211> 1620
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 980446.1

<220>
<221> unsure
<222> 1524
<223> a, t, c, g, or other

<400> 371
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caagaattgc atatgtcttt tatgggccat atatcaatgt ctccagctgc agatttattg 60
atagttccaa tcctggactt cagatttctc tcaatgtcaa taatactgaa catgttgttt 120
ctattgtaac tgattaccat aacctgaaga caagattcaa ttatctggga ttcggtggct 180
ttgccagtgt ggctgatcaa ggccaaataa cccgatttgg tttgggcact caagcaatag 240
taaagcctgt aagacatgat aggattattt tccccttgga tttaaattta atatagcagt 300
tggattaatt ttgtgcatta gcttggtgat tttaactttc caatggcgtt tttacctttc 360
ttttagaaaa ctaatgcgat ggatattaat acttgttatt gccttgtggt ttattgagct 420
tttggatgtg tggagcactt gtagtcagcc catttgtgca aaatggacaa ggacagaggc 480
tgagggaagc aagaagtctt tgtcttctga agggcaccac atggatcttc ctgatgttgt 540
cattacctca cttcctggtt caggagctga aattctcaaa caactttttt tcaacagtag 600
tgattttctc tacatcaggg ttcctacagc ctacattgat attcctgaaa ctgagttgga 660
aatcgactca tttgtagatg cttgtgaatg gaaggtgtca gatatccgca gtgggcattt 720
tcgtttactc cgaggctggt tgcagtcttt agtccaggac acaaaattac atttgcaaaa 780
catccatctg catgaaccca ataggggtaa actggcccaa tattttgcaa tgaataagga 840
caaaaaaaga aaatttaaaa ggagagagtc tttgccagaa caaagaagtc aaatgaaagg 900
cgcctttgat agagatgctg aatatattag ggctttgagg agacacctgg tttactatcc 960
aagtgcacgt cctgtgctca gtttaagcag tggaagctgg acgttaaagc ttcatttttt 1020
tcaggaagtt ttaggagctt cgatgagggc attgtacata gtaagagacc ctcgggcatg 1080
gatttattca atgttgtaca atagtaaacc aagtctttat tctttgaaga atgtaccaga 1140
gcatttagca aaattgttta aaatagaggg aggtaaaggc aaatgtaact taaattcggg 1200
ttatgctttc gagtatgaac cattgaggaa agaattatca aaatccaaat caaatgcagt 1260
gtccctcttg tctcacttgt ggctagcaaa tacagcagca gccttgagaa taaatacaga 1320
tttgctgcct actagctacc agctggtcaa gtttgaagat attgtgcatt ttcctcagaa 1380
aactactgaa aggatttttg cctttcttgg aattcctttg tctcctgcta gtttaaacca 1440
aatattgttt gccacctcta caaacctttt ttaccttccc tatgaagggg aaatatcacc 1500
```

```
aactaatact aatgtttgga aacngaactt gccctagaga tgaaattaaa ctaattgaaa 1560
acatctgctg gactctgatg gatcgcctag gatatccaaa gtttatggac taaatgctgc 1620
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<210> 372
<211> 1186
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198827.1

<400> 372
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gcaagcgaaa ggagaggagg cggctaatta aatattgagc agaaagtcgc gtggggagag 60
tcacgtgggt ctggaggctc aaggaggctg ggataaatac cgcaaggcac tgagcaggcg 120
aaagagcgcg ctcggacctc cttcccggcg gcagctaccg agagtgcgga gcgaccagcg 180
tggcgctcgg aggaaccaga gaaactcagc accccgcggg actgtccgtc gcaaaatcca 240
acatgaaaat cctcgtggcc ttggcagtct ttttcttgt ctccactcag ctgtttgcag 300
aagaaatagg agccaatgat gatctgaatt actggtccga ctggtacgac agcgaccaga 360
tcaaggagga actgccggag cccttgagc atcttctgca gagaatcgcc cggagaccca 420
agcctcagca gttctttgga ttaatgggca acgggatgc tgattcctca attgaaaaac 480
aagtggccct gttaaaggct ctttatggac atggccagat ctctcacaaa agacataaaa 540
cagattcctt tgttggacta atgggcaaaa gagctttaaa ttctgtggct tatgaaagga 600
gtgcaatgca gaattatgaa agaagacgtt aataaactac ctaacattat ttattcagct 660
tcatttgtgt caatgggcaa tgacaggtaa attaagacat gcactatgag gaataattat 720
ttatttaata acaattgttt ggggttgaaa attcaaaaag tgtttatttt tcatattgtg 780
ccaatatgta ttgtaaacat gtgtttaat tccaatatga tgactccctt aaaatagaaa 840
taagtggtta tttctcaaca aagcacagtg ttaaatgaaa ttgtaaaacc tgtcaatgat 900
acagtccta aagaaaaaaa atcattgctt tgaagcagtt gtgtcagcta ctgcggaaaa 960
ggaaggaaac tcctgacagt cttgtgctt tcctatttgt tttcatggtg aaaatgtact 1020
gagattttgg tattacactg tatttgtatc tctgaagcat gtttcatgtt ttgtgactat 1080
atagagatgt tttaaaagt ttcaatgtga ttctaatgtc ttcatttcat tgtatgatgt 1140
gttgtgatag ctaacatttt aaataaaaga aaaaatatct tgaaaa 1186
```

<210> 373
<211> 3128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1102297.22

<400> 373
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tttggctta ttcattttt gtgagagttg accatcaggt atattgggga agggagagat 60
ggaggcacct tcatgagtgc ctcccaaggg cagtagcctc tgcaacttgc tggggggttca 120
ggggaagcag ggagttcatg gggctcctcc agcaaagatg agctccaggg ctgcttggat 180
gtccccaccg gtggcctgca gggcccgcag gctcagctca tcgtcctgga tgcccatgtc 240
acgtagctgc tgcagctggg gctgccactg gctctgaagg ctgggctgcc cagaggcctg 300
aagggcatgc tgtagggctt ggctgaagag atcattggtg atgggcgtcc ctgactggac 360
accagaggac attggtgagg tccctgagga atgaccctgg gtgccaggag tcggtgtgtg 420
agagctgctc tccggagtgc tggccaggc caaggcggtg gccagctcac tctgggtgat 480
gggccggggc ccagcagctc cactgtaccc cagggaggct gggcgggagc tgggagtact 540
gctagagggt gtggacctgg tgtttgggtg aaagtcatcc tcatcatctg agagcccttc 600
aaacaggaag ccacctggca tatcccggta tgagctggag ggcatgctcc gggaagagga 660
gtcagtccca ggcattgggg cactgcctgc tacggagtgc agaaccagga caatggcatt 720
```

```
gacgagggct gggtgagcag gcaccaacgt atcaagcata ttgggatcag cgaagacaga 780
gaagaggtcc ttgtcctgga gaacccaag agcaataggg tcactgctga ggcctggggt 840
ggccacaatg atctgatcca gagactcctt attgctgagc atcttaaaga ccgcctccct 900
gtaagaggag ctgctgtgca gggcagtgtg caacacccgg aactctctca tggcagccac 960
tttgtccaca ggttccggtt tctgatcagg ttcaggccag gactttcgca gaacatggac 1020
agtggaccca ggttgaatgc catagaagtc aagtgtctgg tcatctttta gcttccgacc 1080
acagtagatc agatcaatca gctcagggtc tggaacagac tcctggagtt tgccagcaat 1140
aagctgcttc agaaatgaaa tactatagcc ccctagcgag tattctccca gttctgtctc 1200
tggcaaccga agaatagact ttggagtaag tggctggtca gccagcttca ccgccaggtg 1260
ccagtctgag agagacatcc tctctctttc gcgctctctc tttctccccg tcccgccgag 1320
accgcgtccg ccccgcgagc acagagcctc gcctttgccg atccgccgcc cgtccacacc 1380
cgccgccagc tcaccatgga tgatgatatc gccgcgctcg tcgtcgacaa cggctccggc 1440
atgtgcaagg ccggcttcgc gggcgacgat gcccccggg ccgtcttccc ctccatcgtg 1500
gggcgcccca ggcaccaggg cgtgatggtg ggcatgggtc agaaggattc ctatctgggc 1560
gacgaggccc agagcaagag aggcatcctc accctgaagt accccatcga gcacggcatc 1620
gtcaccaact gggacgacat ggagaaaatc tggcaccaca ccttctacaa tgagctgcgt 1680
gtggctcccg aggagcaccc cgtgctgctg accgaggccc ccctgaaccc caaggccaac 1740
cgcgagaaga tgacccagat catgtttgag accttcaaca ccccagccat gtacgttgct 1800
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ggtgacgggg tcacccacac tgtgcccatc tacgaggggt atgccctccc ccatgccatc 1920
ctgcgtctgg acctggctgg ccgggacctg actgactacc tcatgaagat cctcaccgag 1980
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ctggagaaga gctacgagct gcctgacggc caggtcatca ccattggcaa tgagcggttc 2160
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gaaactacct tcaactccat catgaagtgt gacgtggaca tccgcaaaga cctgtacgcc 2280
aacacagtgc tgtctggcgg caccaccatg taccctggca ttgccgacag gatgcagaag 2340
gagatcactg ccctggcacc cagcacaatg aagatcaaga tcattgctcc tcctgagcgc 2400
aagtactccg tgtggatcgg cggctccatc ctggcctcgc tgtccacctt ccagcagatg 2460
tggatcagca gcaggagta tgacgagtcc ggcccctcca tcgtccaccg caaatgcttc 2520
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aaacaagatg agattggcat ggctttattt gttttttttg ttttgttttg ttttccttt 2640
ttttttttggc ttgactcagg atttaaaaac tggaacggtg aaggtgacag cagtcggttg 2700
gagcgagcat ccccccaaagt tcacaatgtg gccgaggact ttgattgcac attgttgttt 2760
ttttaatagt cattccaaat atgagatgca ttgttacagg aagtcccttg ccatcctaaa 2820
agccacccca cttctctcta aggagaatgg cccagtcctc tcccaagtcc acacaggga 2880
ggtgatagca ttgctttcgt gtaaattatg taatgcaaaa ttttttttaat cttcgcctta 2940
atactttttt attttgtttt attttgaatg atgagccttc gtgcccccc ttccccttt 3000
tttgtccccc aacttgagat gtatgaaggc ttttggtctc cctgggagtg ggtggaggca 3060
gccagggctt acctgtacac tgacttgaga ccagttgaat aaaagtgcac accttaaaaa 3120
tgaaaaaa                                                            3128
```

<210> 374
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 215112.1

<400> 374
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aaatgctttc gccaatctct taaagtagtt gagaagctag gtgtgttagt ttcccttctg 60
tgatagagaa gaaacctgtg ttggagagca gtgagcttat gtgtctgtgg ccatctctga 120
cctgattcac acatgtgccc ctcacagaca ggcacagaca cagggttggc atgcctctag 180
ccttacagcc tcttggatga aaggtataag acacattcac atgttggagt gaattaagca 240
```

```
cacatccatt ttgaaatcac agggctggat accacttaaa gaatattgat cttgcattgg 300
gcaacgcata gcaactgccc tacatttccc cttttaccta gcgtcacaac caccagtact 360
agaaagcagt taatctgctc accaaaataa cagagagaga ctttagtggc attttttcca 420
cttggtaatt gactagactc tggctattag ctcctttttt ttccttacta tcctttttcaa 480
actaataacg tgacttctca taattttaaa gtaacttgat gcttacacaa agta      534
```

<210> 375
<211> 1254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 171495.1

<400> 375
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accggccctg cttgcctcag ccacaaagaa tccctggaaa tcgccgatgg cagcggcggg 60
ggatcgcggc gcctgagaac tgcttacacc aacacacagc ttctagagct ggaaaaagaa 120
tttcatttca acaagtacct ttgcagaccc cgaagggtgg agattgcagc gctgctggat 180
ttgactgaga gacaagtgaa agtgtggttt cagaaccgga ggatgaagca caagaggcag 240
acccagtgca aggaaaacca aaacagcgaa gggaaatgta aaagccttga ggactccgag 300
aaagtagagg aggacgagga agagaagacg ctctttgagc aagcccttag cgtctctggg 360
gcccttctgg agagggaagg ctacactttt cagcaaaatg ccctctctca gcagcaggct 420
cccaatggac acaatggcga ctcccaaagt ttcccagtct cgcctttaac cagcaatgag 480
aaaaatctga aacattttca gcaccagtca cccactgttc ccaactgctt gtcaacaatg 540
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<210> 376
<211> 1962
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 242010.43

<400> 376
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cctgtttgag ggcatcgact tctacacgtc catcaccagg gcgaggttcg aggagctgtg 360
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<210> 377
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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 5834958CB1

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gagggagaga agttggacca ggaagacgag gaccaggtga aggatcgggg ccaatggacc 180
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<210> 378
<211> 614
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5834958CD1

<400> 378

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Asp Gln Val Lys Asp Arg Gly Gln Trp Thr Asn Lys Met Glu Phe
                35                  40                  45
Val Leu Ser Val Ala Gly Glu Ile Ile Gly Leu Gly Asn Val Trp
                50                  55                  60
Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Gly Ala Phe Phe
                65                  70                  75
Ile Pro Tyr Phe Ile Phe Phe Phe Val Cys Gly Ile Pro Val Phe
                80                  85                  90
Phe Leu Glu Val Ala Leu Gly Gln Tyr Thr Ser Gln Gly Ser Val
                95                  100                 105
Thr Ala Trp Arg Lys Ile Cys Pro Leu Phe Gln Gly Ile Gly Leu
                110                 115                 120
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370

Ala Ser Val Val Ile Glu Ser Tyr Leu Asn Val Tyr Tyr Ile Ile
            125   130   135

Ile Leu Ala Trp Ala Leu Phe Tyr Leu Phe Ser Ser Phe Thr Ser
            140   145   150

Glu Leu Pro Trp Thr Thr Cys Asn Asn Phe Trp Asn Thr Glu His
            155   160   165

Cys Thr Asp Phe Leu Asn His Ser Gly Ala Gly Thr Val Thr Pro
            170   175   180

Phe Glu Asn Phe Thr Ser Pro Val Met Glu Phe Trp Glu Arg Arg
            185   190   195

Val Leu Gly Ile Thr Ser Gly Ile His Asp Leu Gly Ser Leu Arg
            200   205   210

Trp Glu Leu Ala Leu Cys Leu Leu Leu Ala Trp Val Ile Cys Tyr
            215   220   225

Phe Cys Ile Trp Lys Gly Val Lys Ser Thr Gly Lys Val Val Tyr
            230   235   240

Phe Thr Ala Thr Phe Pro Tyr Leu Met Leu Val Ile Leu Leu Ile
            245   250   255

Arg Gly Val Thr Leu Pro Gly Ala Tyr Gln Gly Ile Ile Tyr Tyr
            260   265   270

Leu Lys Pro Asp Leu Phe Arg Leu Lys Asp Pro Gln Val Trp Met
            275   280   285

Asp Ala Gly Thr Gln Ile Phe Phe Ser Phe Ala Ile Cys Gln Gly
            290   295   300

Cys Leu Thr Ala Leu Gly Ser Tyr Asn Lys Tyr His Asn Asn Cys
            305   310   315

Tyr Lys Asp Cys Ile Ala Leu Cys Phe Leu Asn Ser Ala Thr Ser
            320   325   330

Phe Val Ala Gly Phe Val Val Phe Ser Ile Leu Gly Phe Met Ser
            335   340   345

Gln Glu Gln Gly Val Pro Ile Ser Glu Val Ala Glu Ser Gly Pro
            350   355   360

Gly Leu Ala Phe Ile Ala Phe Pro Lys Ala Val Thr Met Met Pro
            365   370   375

Leu Ser Gln Leu Trp Ser Cys Leu Phe Phe Ile Met Leu Ile Phe
            380   385   390

Leu Gly Leu Asp Ser Gln Phe Val Cys Val Glu Cys Leu Val Thr
            395   400   405

Ala Ser Ile Asp Met Phe Pro Arg Gln Leu Arg Lys Ser Gly Arg
            410   415   420

Arg Glu Leu Leu Ile Leu Thr Ile Ala Val Met Cys Tyr Leu Ile
            425   430   435

Gly Leu Phe Leu Val Thr Glu Gly Gly Met Tyr Ile Phe Gln Leu
            440   445   450

Phe Asp Tyr Tyr Ala Ser Ser Gly Ile Cys Leu Leu Phe Leu Ser
            455   460   465

Leu Phe Glu Val Val Cys Ile Ser Trp Val Tyr Gly Ala Asp Arg
            470   475   480

Phe Tyr Asp Asn Ile Glu Asp Met Ile Gly Tyr Arg Pro Trp Pro
            485   490   495

Leu Val Lys Ile Ser Trp Leu Phe Leu Thr Pro Gly Leu Cys Leu
            500   505   510

Ala Thr Phe Leu Phe Ser Leu Ser Lys Tyr Thr Pro Leu Lys Tyr
            515   520   525

Asn Asn Val Tyr Val Tyr Pro Pro Trp Gly Tyr Ser Ile Gly Trp
            530   535   540

371

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Phe Leu Ala Leu Ser Ser Met Val Cys Val Pro Leu Phe Val Val
            545                 550                 555
Ile Thr Leu Leu Lys Thr Arg Gly Pro Phe Arg Lys Arg Leu Arg
            560                 565                 570
Gln Leu Ile Thr Pro Asp Ser Ser Leu Pro Gln Pro Lys Gln His
            575                 580                 585
Pro Cys Leu Asp Gly Ser Ala Gly Arg Asn Phe Gly Pro Ser Pro
            590                 595                 600
Thr Arg Glu Gly Leu Ile Ala Gly Glu Lys Glu Thr His Leu
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<210> 379
<211> 2712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 335648.1c

<220>
<221> unsure
<222> 236-590
<223> a, t, c, g, or other

<400> 379
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tctttactcc ccccaaaaat caataaaaag ttcaaatagc aacttttcct aatgtgttta 720
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<210> 380
<211> 3074
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 333840.1

<220>
<221> unsure
<222> 2358-2447, 2522-2843
<223> a, t, c, g, or other

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nnnnnnnnnn nnnnnnnnnn nnnttcaatc tcatctgata tgcagagtat ttctgcccca 2880
cccacctacc ccccaaaaaa agctgaagcc tatttatttg aaagtccttg tttttgctac 2940
taattatata gtataccata cattatcatt caaaacaacc atcctgctca taacatcttt 3000
gaaaagaaaa atatatatgt gcagtatttt attaaagcaa cattttattt aagaataaag 3060
tcttgttaat tact                                                 3074
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<210> 381
<211> 2905
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 480885.2

<400> 381
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attggagaat tgggagaagt ctctttggtt tggaaaaaaa aaaaaggaat cttcagccta 180
gatcactttc ttatccggac tgggatatta aatatacgac acatccagga gtttattgga 240
gcgcagactg atggcgcaaa ggtacgatga gctgccccat tacggcggga tggacggagt 300
aggggttccc gcttccatgt acggagaccc tcacgcgccg cggccgatcc ccccggttca 360
ccacctgaac cacgggccgt cgctccacgc cacacagcac tacggcgcgc acgccccgca 420
ccccaatgtc atgccggcca gtatgggatc cgctgtcaac gacgccttga agcgggacaa 480
ggacgcgatc tatgggcacc cgttgtttcc tctgttagct ctggtctttg agaagtgcga 540
gctggcgacc tgcactcccc gggaacctgg agtggctggc ggagacgtct gctcctccga 600
ctccttcaac gaggacatcg cggtcttcgc caagcaggtt cgcgccgaaa agccactttt 660
ttcctcaaat ccagagctgg acaatttgat gatacaagca atacaagtac taaggtttca 720
tcttttggag ttagaaaagg tccacgaact gtgcgataac ttctgccacc gatacattag 780
ctgtttgaag gggaaaatgc ccatcgacct cgtcattgat gaaagagacg gcagctccaa 840
gtcagatcat gaagaacttt caggctcctc cacaaatctc gctgaccata acccttcttc 900
ttggcgagac cacgatgatg caacctcaac ccactcagca ggcaccccag ggccctccag 960
tgggggccat gcttcccaga gcggagacaa cagcagtgag caaggggatg gtttagacaa 1020
cagtgtagct tcacctggta caggtgacga tgatgatccg gataaggaca aaaaacgcca 1080
```

```
gaagaaaaga ggcattttcc ccaaagtagc aacaaatatc atgagagcat ggctcttcca 1140
gcatctcaca catccgtacc cttccgaaga gcagaagaaa cagttagcgc aagacacagg 1200
acttacaatt ctccaagtaa acaactggtt tattaatgcc agaagaagaa tagtacagcc 1260
catgattgac cagtcaaatc gagcagtgag ccaaggagca gcatatagtc cagagggtca 1320
gcccatgggg agctttgtgt tggatggtca gcaacacatg gggatccggc ctgcaggacc 1380
tatgagtgga atgggcatga atatgggcat ggatgggcaa tggcactaca tgtaaccttc 1440
atcatgtaaa gcaatcgcaa agcaaggggg aagtttgcag agcatgccag gggactacgt 1500
ttctcagggt ggtcctatgg gaatgagtat ggcacagcca agttacactc ctccccagat 1560
gaccccacac cctactcaat taagacatgg accccaatg cattcatatt tgccaagcca 1620
tccccaccac ccagccatga tgatgcacgg aggacccct acccaccctg gaatgactat 1680
gtcagcacag agccccacaa tgttaaattc tgtagatccc aatgttggcg gacaggttat 1740
ggacattcat gcccaatagt ataagggaac tcaagggaaa aggaaacaca cgcaaaaact 1800
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tgtgattatt ttttactttt gtcatttttc atcaagcaac agaggaccaa tgcaacaaga 1920
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cttcttcaaa gagcttgcca atgaagattt aaagacagag caggagcttc ttccaggagt 2460
tctgagcctt ggttgtggac aaaacaatct taagttgggc agctttcctc aacacaaaaa 2520
aaagttatta atggtcattg aaccataact aggactttat cagaaactca aagcttggg 2580
gataaaaagg agcaagagaa tactgtaaca aacttcgtac agagttcggt ctattaattg 2640
tttcatgtta gatattctat gtgtttacct caattgaaaa aaaaaagaat gttttgcta 2700
gtatcagatc tgctgtggaa ttggtattgt atgtccatga attcttcttt tctcagcacg 2760
tgttcctcac tagaagaaaa tgctgttacc tttaagcttt gtcaaattta cattaaaata 2820
cttgtatgag gactgtgacg ttatgttaaa aaaaaaggt gttaagtcac aaaaagcggt 2880
aataaatatt tcatttttga ttttt                                       2905
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<210> 382
<211> 915
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 998106.8c

<400> 382
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tttaatcatt tttaagtatt taatcatttt ttaaaaatct gtgatgcttt acctgggcat 60
gtctaggcag gtcctccttt gctaggacgt gcccttttct gtcccggaat actctaaact 120
tggcattttg gcagcgtgaa gttttcccgt tgtgactttc tccttgttcc ctttttctcct 180
ccttctttgc agacaatgag tagccactgc tgtttgccct gggcccatca atgagaagat 240
ctgctcttag agccctgctt tcctgctgaa ggccctgaaa tcacctgtgt tccaggccac 300
ctgctaacaa taaataatgc tgccctgatg tggggaatta gctcaagtgg tagagcgctt 360
gcttagcacg caagaggtag tgggatcgat gcccacattc tccaagcttt attatttaga 420
catcgtgtct ccaaacactc aggtctccaa acccaagtta gtgtctgaga acaggatgct 480
gctttggttc aagacgtagg agcagcaata atagagggct ggtgatggct ccctcttggc 540
attcagtata gtgtagatct accatgtaat taattctctg tttctttgag gagctgtgaa 600
accaagggac atatacaact gctcttttct ccctgtttct acctgcagct ttgtcctaaa 660
tgtgagacaa ttatgaaaag tgcagcgcag agccacttgg gtaaatacag ccccggcttt 720
ctgctcaggg gacagagttt gaggcactgc agaggaaccg gccaaagtat gagacccata 780
tattgagagt aacagagtgt aaagttcaaa aaaatcaaaa tatttaaaga tttatcatgg 840
```

```
gtcttgatga catgatggaa tctctctact ctctggactt attatgtgtg gtaataaatt 900
tacttttaa aagcc                                                   915
```

<210> 383
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 400701.4

<220>
<221> unsure
<222> 850
<223> a, t, c, g, or other

<400> 383
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cccgggccct agactgcgcg ccgccaccgc ccgctccctg gcccatgcca gcgtctgggg 60
ctgcctggcc accgtgtcca cccacaagaa gatccaagga ctgccatttg ggaactgcct 120
gcccgtcagt gatggcccct tcaacaatag cactgggatt cctttcttct acatcacagc 180
caaggacccc gtggtggctg atctgatgaa gaaccccatg gcctcgctga tgctgccaga 240
atcagaaggg gagttctgca gaaaaaacat cgttgatccg gaagatcccc gatgtgtcca 300
gttaacgctc actggccaga tgatcgcagt gtctccagaa gaagtagaat ttgccaagca 360
agccatgttt tcaaggcacc cagggatgag gaagtggcct cgtcaatatg aatggttctt 420
tatgaagatg aggatagaac atatctggct tcagaaatgg tatggaggcg catccagtat 480
ttcaagggag gaatatttca aagcagttcc cagaaaggcc tgatggagtg agaagaaagt 540
ccttggtgtt tgcacttaaa taaaaacctt ttcagtgatg cagccagaca gctattgacc 600
actgtctctt tgttgaaggg ttcatagcag ccctgccatc cctgcagcag aatgagagag 660
ggtgaacagg gaactctatg ctagatttga gattaaagtg gtcatttgca gatctccaac 720
tcacacagat acttcacgta gatagtcttt attccattgt attcaatcca gactcatcga 780
ttcagaaatc atataatagc tggtggtcaa aatgacatgt tgagatcatt gttgtttcat 840
tgtttaaggn aaaaaaaaaa tgcctgtacc tacaatgtga ttgctttgta ttgtgagagt 900
atcttgttgc ttgctctgcc aaatgcagtc ttg                            933
```

<210> 384
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1100320.4

<400> 384
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ggccgggccg tgtggatgcc atccccgagc gcggttcgcg ctcggctgag gcgctggaca 60
agtggcttgg gctcccgcgc ctcagtttct ctctgtggcg ccgcctacct cacagacttg 120
tgagcactca ctgacgtggg tagcgcccag ggcctgcggg gcgcaggaga gctggagtca 180
ggcggagacc gcaggctgac cccgcagcgg ccgggctgtc gcggcccca cctcaggtaa 240
ccatgtgcga ccgaaaggcc gtgatcaaaa atgcggacat gtcggaagag atgcaacagg 300
actcggtgga gtgcgctact caggcgctgg agaaatacaa catagagaag gacattgcgg 360
ctcatatcaa gaaggaattt gacaagaagt acaatcccac ctggcattgc atcgtgggga 420
ggaacttcgg tagttatgtg acacatgaaa ccaaacactt catctacttc tacctgggcc 480
aagtggccat tcttctgttc aaatctggtt aaaagcatgg actgtgccac acacccagtg 540
atccatccaa aaacaaggac tgcagcctaa attccaaata ccagagactg aaattttcag 600
ccttgctaag ggaacatctc gatgtttgaa cctttgttgt gttttgtaca gggcattctc 660
```

376

```
tgtactagtt tgtcgtggtt ataaaacaat tagcagaata gcctacattt gtatttattt 720
tctattccat acttctgccc acgttgtttt ctctcaaaat ccattccttt aaaaaataaa 780
tctgatgcag atgtgt                                                    796
```

<210> 385
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 246727.11

<220>
<221> unsure
<222> 847, 856
<223> a, t, c, g, or other

<400> 385
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gagaaacaag tattttgcta tatataaaga caacaaaaga aatctcctaa caaaagaact 60
aagaggccca gccctcagaa acccttcagt gctacatttt gtggcttttt aatggaaacc 120
aagccaatgt tatagacgtt tggactgatt tgtggaaagg agggggggaag agggagaagg 180
atcattcaaa agttacccaa agggcttatt gactctttct attgttaaac aaatgatttc 240
ccttctaacc attcttttat gtcatcaaga gttgcatcag ttgggaagat aaaggtcaag 300
tactaaatat tcagatgaga agaacattgc ataaagcatt taagggatca atttttgttg 360
tgtttgatag cattgaatct gctaagaaat ttgtagagac ccctggccag aagtacaaag 420
aaacagacct gctaatactt ttcaaggacg attactttgc caaaaaaaat gaagaaagaa 480
aacaaaataa agtggaagct aaattaagag ctaaacagga gcaagaagca aaacaaaagt 540
tagaagaaga tgctgaaatg aaatctctag aagaaaagat tggatgcttg ctgaaatttt 600
cgggtgattt agatgatcag acctgtagag aagatttaca catacttttc tcaaatcatg 660
gtgaaataaa atggatagac ttcgtcagag gagcaaaaga ggtttggata catccctatc 720
cttttttagca atcagtttga aaatctgtag aaacttagac aaaattagta gaaagtaatt 780
ttaaaaattg tgttattaaa ttagtttcta cttgatcatt tgttatgccc tagatgtgat 840
gtctganatt ttctgnatta tact                                          864
```

<210> 386
<211> 2742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 246727.17

<220>
<221> unsure
<222> 1841-2010
<223> a, t, c, g, or other

<400> 386
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ctgccgggac ggtccccatc ttcttggagc gctttaggct ggccggcggc gctgggaggt 60
ggagtcgttg ctgttgctgt ttgtgagcct gtggcgcggc ttctgtgggc cggaacctta 120
aagatagccg caatggctga aaatggtgat aatgaaaaga tggctgccct ggaggccaaa 180
atctgtcatc aaattgagta ttattttggc gacttcaatt tgccacggga caagtttcta 240
aaggaacaga taaaactgga tgaaggctgg gtacctttgg agataatgat aaaattcaac 300
aggttgaacc gtctaacaac agactttaat gtaattgtgg aagcattgag caaatccaag 360
```

377

```
gcagaactca tggaaatcag tgaagataaa actaaaatca gaaggtctcc aagcaaaccc 420
ctacctgaag tgactgatga gtataaaaat gatgtaaaaa acagatctgt ttatattaaa 480
ggcttcccaa ctgatgcaac tcttgatgac ataaaagaat ggttagaaga taaaggtcaa 540
gtactaaata ttcagatgag aagaacattg cataaagcat ttaagggatc aatttttgtt 600
gtgtttgata gcattgaatc tgctaagaaa tttgtagaga cccctggcca gaagtacaaa 660
gaaacagacc tgctaatact tttcaaggac gattactttg ccaaaaaaaa tgaagaaaga 720
aaacaaaata agtggaagc taaattaaga gctaaacagg agcaagaagc aaaacaaaag 780
ttagaagaag atgctgaaat gaaatctcta gaagaaaaga ttggatgctt gctgaaattt 840
tcgggtgatt tagatgatca gacctgtaga gaagatttac acatactttt ctcaaatcat 900
ggtgaaataa aatggataga cttcgtcaga ggagcaaaag aggggataat tctatttaaa 960
gaaaaagcca aggaagcatt gggtaaagcc aaagatgcaa ataatggtaa cctacaatta 1020
aggaacaaag aagtgacttg ggaagtacta gaaggagagg tggaaaaaga agcactgaag 1080
aaaataatag aagaccaaca agaatcccta aacaaatgga agtcaaaagg tcgtagattt 1140
aaaggaaaag gaaagggtaa taaagctgcc cagcctgggt ctggtaaagg aaaagtacag 1200
tttcagggca agaaaacgaa atttgctagt gatgatgaac atgatgaaca tgatgaaaat 1260
ggtgcaactg gacctgtgaa aagagcaaga gaagaaacag acaaagaaga acctgcatcc 1320
aaacaacaga aaacagaaaa tggtgctgga gaccagtagt ttagtaaacc aatttttttat 1380
tcattttaaa taggttttaa acgactttg tttgcggggc ttttaaaagg aaaaccgaat 1440
taggtccact tcaatgtcca cctgtgagaa aggaaaaatt ttttgttgt ttaacttgtc 1500
ttttgttat gcaaatgaga tttctttgaa tgtattgttc tgtttgtgtt atttcagatg 1560
attcaaatat caaaaggaag attcttccat taaattgcct ttgtaatatg agaatgtatt 1620
agtacaaact aactaataaa atatatacta tatgaaaaga gcaaaaacag tttcttgatt 1680
ttgtttcttc tttttgtacc caaagcattt aggaaagaac tagaatatta gctattgacg 1740
atgggccttt cccacaggcc attaatggtg tctcctaggc tggctttgta tatttacaca 1800
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1920
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1980
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccagaaagct tttcaatacc gaatgtagac 2040
cagccaaaat caagagactt actgatttct ttttgtgaaa cttgtatgat gctggcaggt 2100
catatcgaag ttctgctata atatctatct tgattttcca ttctgcagct ttcttttgaa 2160
catgttctct agttgaggat ttgtgtaagg aatatactgc tgttcttgcc atttccaaag 2220
cagtctttag aaaagccata tctgtccctt tattattttt ggtcccaaag ggaggattca 2280
taattactgt atcgaatgac ttggacattc tgttagataa taagcacaca tcacattgaa 2340
ccatgtcaat atttgttaac tcaaactctt ctgcattcct attaaatatt tccaatgcgt 2400
cttcatctat gtcaaatcca acacacaacc ctgctcctaa cattgcagtt ccgatgctaa 2460
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tatggattgt atagagcata catgctgcaa tgtgcggcct ggtaggatac tgttccagaa 2580
gtagcttggg cttttcaaat ccatccactt gttgcaggcg actctctagt tccttaagcc 2640
ttactttctt cattttgttt taaagtatgg actcgtaggg tttgaaggca caggatctct 2700
ggaggcgacc cgcacctcgg ccggtgccgg aagcgccagg cc                    2742
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<210> 387
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1102322.12c

<400> 387
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tgtttataaa gtgcaatgtt atttccttcc cctgtgcata tgttccatat tcaagtattg 120
agaatgccca gtaacttact atagcagctt aactttttaa aactgccaca gaatttgcta 180
cgaatttagg tccttcaaat gttttaaatg tgtggaacaa tgctacatct acacttggtt 240
ggcttaatca acctcttcaa tggtgggccc tgaggaagca ccaccagagg gaggagctcc 300
```

```
accaccagga aatcccccag gcattcctcc tggcatgcct cctgcactct ggtacagctt 360
ggtgatgata gggttgcaaa ctttctccag ctctttctgt tgatgttcaa attcttcctt 420
ctcagcagtc tgaggaagag aaaaaggaat tactgcaagt tcttttaatg ttaataaccc 480
ttctttctcc ctgacgcaat ctgatactaa aagtctggcg caaactctta caagagggcc 540
actaccaaca ttaaaatagg gccttattct tccttaacat cttgggtcac tcagacatcc 600
aaggaaggta gttgccaaca ccttgaattc tggtggaaac cgcgaatgtt ttggaccatt 660
catcattgtg accctatact gaaatccagc tcaagcttgg tttaccatcc ccttcccctc 720
cattgagtgg gggaggatat tt                                        742
```

```
<210> 388
<211> 1161
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1102322.18

<400> 388
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agtacgggaa aagagaacaa gattacccgt gcccgatttg aagaactgaa tgctgacctg 120
ttccgtggca ccctggaccc agtagagaaa gcccttcgag atgccaaact agacaagtca 180
cagattcatg atattgtcct ggttggtggt tctactcgta tccccaagat tcagaagctt 240
ctccaagact tcttcaatgg aaaagaactg aatttgaaca tcaacagaaa gagctggaga 300
aagtttgcaa ccccatcatc accaagctgc accccgaggt gttcctcaga ttgaagtcac 360
ttttgacatt gatgccaatg gtatactcaa tgtctctgct gtggacaaga gtacgggaaa 420
agagaacaag attactatca ctaatgacaa gggccgtttg agcaaggaag acattgaacg 480
tatggtccag gaagctgaga agtacaaagc tgaagatgag aagcagaggg caaggtgtc 540
atccaagaat tcacttgagt cctatgcctt caacatgaaa gcaactgttg aagatgagaa 600
acttcaaggc aagattaacg atgaggacaa acagaagatt ctggacaagt gtaatgaaat 660
tatcaactgg cttgataaga atcagactgc cgagaaggaa gaatttgaac atcaacagaa 720
agagctggag aaagtttgca accccatcat caccaagctg taccagagtg caggaggcat 780
gccaggagga atgcctgggg gatttcctgg tggtggagct cctccctctg gtggtgcttc 840
ctcagggccc accattgaag aggttgatta agccaaccaa gtgtagatgt agcattgttc 900
cacacatttta aaacatttga aggacctaaa ttcgtagcaa attctgtggc agtttaaaa 960
agttaagctg ctatagtaag ttactgggca ttctcaatac ttgaatatgg aacatatgca 1020
caggggaagg aaataacatt gcactttata aacactgtat tgtaagtgga aaatgcaatg 1080
tcttaaataa aactatttaa aattggcacc atacaattgc tttgagtctt taaataatct 1140
cccaggccag ctggtgggag a                                        1161
```

```
<210> 389
<211> 1432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2070610CB1

<400> 389
tatagtccat atagggattt ggccctcgag catgaattcg gcacgaggat tcttgggcat 60
ttgctattaa cttccttcca aaatgtcacc attcctgtat ctggttctct ggtacttgg 120
gcttcatgct acaatccact gtgcatcacc tgaaggcaaa gtaacagcct gccattcatc 180
ccaaccaaat gccactctct acaagatgtc atccattaat gctgactttg cattcaatct 240
gtaccggagg ttcactgtgg agaccccaga taagaacatc ttcttttccc ctgtgagcat 300
ttctgcagct ttggttatgc tttcctttgg ggcctgctgc agcacccaaa ctgagattgt 360
```

379

```
ggagaccttg gggttcaacc tcacagacac tccaatggta gagatccagc atggcttcca  420
gcatctgatc tgttcactga attttccaaa gaaggaactg gaattgcaga taggaaatgc  480
cctcttcatt ggcaagcatc tgaaaccact ggcaaagttc ttgaatgatg tcaagaccct  540
ctatgagact gaagtctttt ctaccgactt ctccaacatt tctgcagcca agcaggagat  600
taacagtcat gtggagatgc aaaccaaagg gaaagttgtg ggtctaattc aaaacctcaa  660
gccaaacacc atcatggtct tagtgaacta tattcacttt aaagcccagt gggcaaatcc  720
ttttgatcca tccaagacag aagacagttc cagcttctta atagacaaga ccaccactgt  780
tcaagtgccc atgatgcacc agatggaaca atactatcac ctagtggata tggaattgaa  840
ctgcacagtt ctgcaaatgg actacagcaa gaatgctctg cactctttg ttcttcccaa  900
ggagggacag atggagtcag tggaagctgc catgtcatct aaaacactga agaagtggaa  960
ccgcttacta cagaagggat gggttgactt ttttgttcca agttttccca tttctgccac 1020
atatgacctt ggagccacac ttttgaagat gggcattcag catgcctatt ctgaaaatgc 1080
tgattttct ggactcacag aggacaatgg tctgaaactt tccaatgctg cccataaggc 1140
tgtgctgcac attggtgaaa agggaactga agctgcagct gtccctgaag ttgaactttc 1200
ggatcagcct gaaaacactt tcctacaccc tattatccaa attgatagat ctttcatgtt 1260
gttgattttg gagagaagca caaggagtat tctctttcta gggaaagttg tgaacccaac 1320
ggaagcgtag ttgggaaaaa aggccattgg ctaattgcac gtgtgtattg caatcggaaa 1380
taaataaata atatagcctg gtgtgaaaaa aaacgagaaa aaaaaaaaa aa            1432
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<210> 390
<211> 415
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2070610CD1

<400> 390
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1               5                   10                  15
Ala Thr Ile His Cys Ala Ser Pro Glu Gly Lys Val Thr Ala Cys
                20                  25                  30
His Ser Ser Gln Pro Asn Ala Thr Leu Tyr Lys Met Ser Ser Ile
                35                  40                  45
Asn Ala Asp Phe Ala Phe Asn Leu Tyr Arg Arg Phe Thr Val Glu
                50                  55                  60
Thr Pro Asp Lys Asn Ile Phe Phe Ser Pro Val Ser Ile Ser Ala
                65                  70                  75
Ala Leu Val Met Leu Ser Phe Gly Ala Cys Cys Ser Thr Gln Thr
                80                  85                  90
Glu Ile Val Glu Thr Leu Gly Phe Asn Leu Thr Asp Thr Pro Met
                95                  100                 105
Val Glu Ile Gln His Gly Phe Gln His Leu Ile Cys Ser Leu Asn
                110                 115                 120
Phe Pro Lys Lys Glu Leu Glu Leu Gln Ile Gly Asn Ala Leu Phe
                125                 130                 135
Ile Gly Lys His Leu Lys Pro Leu Ala Lys Phe Leu Asn Asp Val
                140                 145                 150
Lys Thr Leu Tyr Glu Thr Glu Val Phe Ser Thr Asp Phe Ser Asn
                155                 160                 165
Ile Ser Ala Ala Lys Gln Glu Ile Asn Ser His Val Glu Met Gln
                170                 175                 180
Thr Lys Gly Lys Val Val Gly Leu Ile Gln Asn Leu Lys Pro Asn
                185                 190                 195
Thr Ile Met Val Leu Val Asn Tyr Ile His Phe Lys Ala Gln Trp
```

380

```
                200                   205                   210
Ala Asn Pro Phe Asp Pro Ser Lys Thr Glu Asp Ser Ser Ser Phe
                215                   220                   225
Leu Ile Asp Lys Thr Thr Thr Val Gln Val Pro Met Met His Gln
                230                   235                   240
Met Glu Gln Tyr Tyr His Leu Val Asp Met Glu Leu Asn Cys Thr
                245                   250                   255
Val Leu Gln Met Asp Tyr Ser Lys Asn Ala Leu Ala Leu Phe Val
                260                   265                   270
Leu Pro Lys Glu Gly Gln Met Glu Ser Val Glu Ala Ala Met Ser
                275                   280                   285
Ser Lys Thr Leu Lys Lys Trp Asn Arg Leu Leu Gln Lys Gly Trp
                290                   295                   300
Val Asp Phe Phe Val Pro Lys Phe Ser Ile Ser Ala Thr Tyr Asp
                305                   310                   315
Leu Gly Ala Thr Leu Leu Lys Met Gly Ile Gln His Ala Tyr Ser
                320                   325                   330
Glu Asn Ala Asp Phe Ser Gly Leu Thr Glu Asp Asn Gly Leu Lys
                335                   340                   345
Leu Ser Asn Ala Ala His Lys Ala Val Leu His Ile Gly Glu Lys
                350                   355                   360
Gly Thr Glu Ala Ala Ala Val Pro Glu Val Glu Leu Ser Asp Gln
                365                   370                   375
Pro Glu Asn Thr Phe Leu His Pro Ile Ile Gln Ile Asp Arg Ser
                380                   385                   390
Phe Met Leu Leu Ile Leu Glu Arg Ser Thr Arg Ser Ile Leu Phe
                395                   400                   405
Leu Gly Lys Val Val Asn Pro Thr Glu Ala
                410                   415
<210> 391
<211> 1215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 336733.3

<400> 391
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accattgaca actaccagcc gtacccgtgc gcagaggacg aggagtgcgg cactgatgag 120
tactgcgcta gtcccacccg cggaggggac gcaggcgtgc aaatctgtct cgcctgcagg 180
aagcgccgaa aacgctgcat gcgtcacgct atgtgctgcc ccgggaatta ctgcaaaaat 240
ggaatatgtg tgtcttctga tcaaaatcat ttccgaggag aaattgagga aaccatcact 300
gaaagctttg gtaatgatca tagcaccttg gatgggtatt ccagaagaac caccttgtct 360
tcaaaaatgt atcacaccaa aggacaagaa ggttctgttt gtctccggtc atcagactgt 420
gcctcaggat gtgttgtgc tagacacttc tggtccaaga tctgtaaacc tgtcctgaaa 480
gaaggtcaag tgtgtaccaa gcataggaga aaaggctctc atggactaga aatattccag 540
cgttgttact gtggagaagg tctgtcttgc cggatacaga aagatcacca tcaagccagt 600
aattcttcta ggcttcacac ttgtcagaga cactaaacca gctatccaaa tgcagtgaac 660
tcctttttata taatagatgc tatgaaaacc ttttatgacc ttcatcaact caatcctaag 720
gatatacaag ttctgtggtt tcagttaagc attccaataa caccttccaa aaacctggag 780
tgtaagagct ttgtttcttt atggaactcc cctgtgattg cagtaaatta ctgtattgta 840
aattctcagt gtggcactta cctgtaaatg caatgaaact tttaattatt tttctaaagg 900
tgctgcactg cctattttc ctcttgttat gtaaattttt gtacacattg attgttatct 960
tgactgacaa atattctata ttgaactgaa gtaaatcatt tcagcttata gttcttaaaa 1020
```

381

```
gcataaccct ttaccccatt taattctaga gtctagaacg caaggatctc ttggaatgac 1080
aaatgatagg tacctaaaat gtaacatgaa aatactagct tattttctga aatgtactat 1140
cttaatgctt aaattatatt tccctttagg ctgtgatagt ttttgaaata aaatttaaca 1200
tttaatatca aaaaa                                                  1215
```

<210> 392
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1326902.13

<220>
<221> unsure
<222> 174
<223> a, t, c, g, or other

<400> 392
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aaagaaatgt atttgaagtt ctttttcttt cccccatagg gtagaagagc agaggatggc 60
tctgtcattg attatgaact gattgaccaa gatgctcggg atctctatga cgctggagtg 120
aagaggaaag gaactgatgt tcccaagtgg atcagcatca tgaccgagcg gacntgcccc 180
acctccagaa agtatttgat aggtacaaga gttacagccc ttatgacatg ttggaaagca 240
tcaggaaaga ggttaaagga gacctggttc agtgcattca gaacaagccc ctgtattttg 300
ctgatcggct gtatgactcc atgaagggca aggggacgcg agataaggtc ctgatcagaa 360
tcatggtctc ccgcagtgaa gtggacatgt tgaaaattag gtctgaattc aagagaaagt 420
acggcaagtc cctgtactat tatatccagc aagacactaa gggcgactac cagaaagcgc 480
tgctgtacct gtgtggtgga gatgactgaa gcccgacacg gcctgagcgt ccagaaatgg 540
tgctcaccat gcttccagct aacaggtcta gaaaaccagt cttggcgaat aacagtcgcc 600
cttagtgtct tgctggatat aataggacag ggactggccg tactttctct tgaattcaga 660
cctaatttc aacatgtcca cttcactgcg ggagaccatg attctgatca ggaccttatc 720
tcgctgtccc ttgcccttca tggagtcata cagccgatca gcaaaataca ggggcttgtt 780
ctgaatgcgc tgaaccaggt tcaggaaagc attttccagg tctcctttaa cctcttgcct 840
gatgctttcc aacatgtcat aagggctgta actcttgtac ctatcaaata ctttctggag 900
gtggggcacg ctccgctcgg tcatgatgct gatccactag gggaacatca ggtcctttcc 960
tcttcactcc agcgt                                                  975
```

<210> 393
<211> 1660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1326902.6

<400> 393
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ggggacgctc tcagctctcg gcgcacggcc cagggtgaaa atgtttgcca ttaaactcac 60
atgaagtagg aaatatttat atggatacaa aaggcacctg catgggataa tgtcaaattt 120
catagatact gctttgtgct tccttcaaaa tgtctactgt tcacgaaatc ctgtgcaagc 180
tcagcttgga gggtgatcac tctacacccc caagtgcata tgggtctgtc aaagcctata 240
ctaactttga tgctgagcgg gatgctttga acattgaaac agccatcaag accaaaggtg 300
tggatgaggt caccattgtc aacattttga ccaaccgcag caatgcacag agacaggata 360
ttgccttcgc ctaccagaga aggaccaaaa aggaacttgc atcagcactg aagtcagcct 420
tatctggcca cctggagacg ttgattttgg gcctattgaa gacacctgct cagtatgacg 480
```

```
cttctgagct aaaagcttcc atgaaggggc tgggaaccga cgaggactct ctcattgaga 540
tcatctgctc cagaaccaac caggagctgc aggaaattaa cagagtctac aaggaaatgt 600
acaagactga tctggagaag gacattattt cggacacatc tggtgacttc cgcaagctga 660
tggttggccc tggcaaaggg tagaagagca gaggatggct ctgtcattga ttatgaactg 720
attgaccaag atgctcggga tctctatgac gctggagtga agaggaaagg aactgatgtt 780
cccaagtgga tcagcatcat gaccgagcgg agcgtgcccc acctccagaa agtatttgat 840
aggtacaaga gttacagccc ttatgacatg ttggaaagca tcaggaaaga ggttaaagga 900
gacctggaaa atgctttcct gaacctggtt cagtgcattc agaacaagcc cctgtatttt 960
gctgatcggc tgtatgactc catgaagggc aaggggacgc gagataaggt cctgatcaga 1020
atcatggtct cccgcagtga agtggacatg ttgaaaatta ggtctgaatt caagagaaag 1080
tacggcaagt ccctgtacta ttatatccag caagacacta agggcgacta ccagaaagcg 1140
ctgctgtacc tgtgtggtgg agatgactga agcccgacac ggcctgagcg tccagaaatg 1200
gtgctcacca tgcttccagc taacaggtct agaaaaccag cttgcgaata acagtccccg 1260
tggccatccc tgtgagggtg acgttagcat tacccccaac ctcattttag ttgcctaagc 1320
attgcctggc cttcctgtct agtctctcct gtaagccaaa gaaatgaaca ttccaaggag 1380
ttggaagtga agtctatgat gtgaaacact ttgcctcctg tgtactgtgt cataaacaga 1440
tgaataaact gaatttgtac tttagaaaca cgtactttgt ggccctgctt tcaactgaat 1500
tgtttgaaaa ttaaacgtgc ttggggttca gctggtgagg ctgtccctgt aggaagaaag 1560
ctctgggact gagctgtaca gtatggttgc ccctatccaa gtgtcgctat ttaagttaaa 1620
tttaaatgaa ataaataaaa ataaaatcag ttcctgagtc                        1660
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<210> 394
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 013521.16

<400> 394
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ttcttgaact cctggaccat gaatatctaa cctcaactgt cagggagaaa aaggcagtga 120
taaccaacat tctgctaaga atacagtcat ccaaaggttt tgatgtgaag gaccatgctc 180
agaagcagga gaccgctaac agcctgccag cccctcctca gatgcccctg ccggagatcc 240
ctcagccctg gctgcctcct gacagtgggc ctccaccatt gccaacatcc tccctcccag 300
aaggttatta tgaggaagct gtgccgctga gccccggaaa agctccggaa tacatcacat 360
caaattatga ttccgatgcg atgagcagct cttatgagtc gtatgatgaa gaggaggagg 420
atgggaaggg gaagaaaacc cggcaccagt ggccctccga ggaggcctcc atggacctgg 480
tcaaggacgc caaaatctgc gccttcctgc tgcggaagaa gcggttcggc cagtggacca 540
agttgctctg cgtcatcaaa gacaccaaac tgctgtgcta aaaagttcc aaggaccagc 600
agcctcagat ggaactgcca ctccaaggct gtaacattac gtacatcccg aaagacagca 660
aaaagaagaa gcacgagctg aagattactc agcagggcac ggacccgctt gttctcgccg 720
tccagagcaa ggaacagggc cgagcagtgg ctgaaggtga tcaaagaagc cta       773
```

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<210> 395
<211> 1321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 985369.1

<400> 395
taccctctgc cttttaaga tgatgtattt atttaatttt tgccatcatt ggtgcttcac 60
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cttcctgcga aggaaattcc agagcctgta tttaagctac ctaggctttt acactccctt 120
tattgccttt ccaaatagta tctcatttgg tgtactctag tgtcctatac ctcttggaaa 180
cgaaagaggg cccaacctac aactaagaag ggacaaacct tgaactaagt aagaccttac 240
acacccagaa agaacactgg gccctccttc ttcagggaca atgcagtagc cacttggctt 300
gtggaattta ctgaaggcta tttcctgtaa cttgctagtt aacttagttt tgtatttcag 360
ggcagaggtg cgctctgtaa tgttgggcct ttgacttcac agtactggag agctgttcac 420
acagatgttt agacctttct ctctctctct tttcttcttt ctcaacaact ctttcacaga 480
ggcagtcatt ttgaaaggtt gaaatatttg gcctttacca aagagctttt tttttcctta 540
agcaaaatcc tttcagaaag aaacaaatgg ggaagggcag attaagaatg catatgtccc 600
aatccacttc tataggagtt taatcatatt cacatgagta aaatgatgga agaactcttt 660
aaggtaatcc tttgggataa aggatcctgg gaagttctct caggtaaaga aagcttacag 720
cagatttgta atatatgtct ggagagctat ttataagaaa tttaagagga ttgttttgtt 780
ttcctttatt aaagatttaa gcctttttac tttgcaaaaa gaaaactaca aaagtttat 840
agatataact ttgctaattt tttaaacttt tctgaaacga ttagctgtag ccaaattatg 900
tggttacgtt ttgctacatt agaatttgaa aatgcaatat gtgtggtaaa tctactgttt 960
gaaatttata atggtctctg atatgattcg aattttggta acttttgaaa gttattttcc 1020
ccctttagtc atggatttct atttgttttt taatgttaat ttttctagaa agcatctgaa 1080
ttgactaggc ttttcctata taaaaaactc aaaacttgtt aactctgtac tttaataaaa 1140
tttaaaatta aaactgtgtt gtttttttct cttctgctag atacatatat aattaaagta 1200
ctcaagttag ttgttttgca gagatgttgc cttcagatgt taatcaggtc tctcaagttt 1260
catggagtct atgctgatcc tttaattgac aaataaaaga tatatatctg tggtgtgcaa 1320
c                                                               1321
```

<210> 396
<211> 1275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 002455.1

<220>
<221> unsure
<222> 525
<223> a, t, c, g, or other

<400> 396

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gcggccgcca gcttgcaaag ccgaagtctg gccgcgctct tcgactcgct cgccacgtc 60
cccggggtg ccgagccggc ggggggtgag gtggctgcgc cggcggccgg gctaggaggt 120
gcgggcactg ggggcgcggg aggggacgtg gcaggccccg cggggccac ggcgatccca 180
ggggccagga aggtcccgct gcgggcacgc aatctgccct ccgtccttct tcacggagcc 240
gtcccgggca ggcggggggc gggtgtggcc ccgtcggggc cggacgtgag ccttgggcga 300
cctggagaag ggcgcggagg ccgtggagtt ctttgagcct gctggggccc gactacggcg 360
ccggcacgga ggcggcagtc ttgcttgccg ccgagcctct cgacgtgttt cccgccggag 420
cctccgtact gcggggaccc ccggagctgg agcccggcct ctttgagccg ccgccggcag 480
tggtgggaaa cctattgtac cccgagccct ggagcgtccc ggtgnacctc cccgaccaaa 540
aagagccccc tgactgcccc ccgcggcggc ttgaccttga acgagccctt gagcccctg 600
taccccgccg ctgcggattc tcccggcggg gaggacgggc cgggccattt ggcctctttc 660
gcccccttct ttccagactg cgccctgccc ccgacgccgc cgccccatca ggtgtcctac 720
gattacagcg cgggctacag ccgcaccgcc tattccagcc tttggagatc cgacggggtt 780
tgggaagggg cgccggggga ggagggggcg caccgggact gacttcgagg cacgcttccc 840
ttcattagag acggctgtgg agagcgccgc gcctccgtgg gtttctccta aatctgaaga 900
acgatgggaa atgcacgtgg agatgaaacc agattttaa aaattcaatt aataaaagca 960
acttcagaaa aaagagatga agacgagttg gggattgttt aatcacaacc tcaagtgtta 1020
aaacaaaaac aaacaaacac gtttgtaggt tcttactgga ccagaggagt caagaaacca 1080
```

```
agatggtttg gggtatgggg tggggacggc aaaaggggta agagctggct tctgtagcca 1140
cctgtccctt ctatttttca gcgaaggtca gtgtatttag tgtaattacc ccttctaaac 1200
agtgtcctag tccctccctt ccctctcctt gagtgcattt tgaattaaag cctatattga 1260
aaaaaaaaaa aaagg                                                 1275
```

<210> 397
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 372647.1

<400> 397
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accacgtctg gcacaaaaaa aatgtatttc ttaaaaaggc tctaataaaa aacatttgaa 60
agccactgtt ctaggtgata atgattgtaa gatctttgtg tatagttctt gctagctcag 120
tcttattaat agtttcattg agagagaatt caacaggtat ttgtttgtaa gtactaacaa 180
aaaattgtac attcaatact tatcaaacaa aagttacatg atcttattct tccactatta 240
aatttttatt ttatttttaa attttgattt tttggcattt cacctgcaag tcttttttgtc 300
ttattagagt cacactatgt gatggtattt tttctttatc cacaatctcc cctgactccc 360
ctgttactat tatggaataa tgtaaagtta agaattaatt atgattacag tagttatggg 420
taattaggta ctatgaatca aatcttagaa atcactttca ttattgtaat agtgcctcag 480
aaaacaattt ttcctctttg acttttaaa ttgttaatac tatcataaat ggcatttatg 540
tattcattta ccaaatattg atcaaaaact actttgtgtc taccatcaga atttaaaaga 600
caccttccta gatcatagag aaggcttact gacatggcac atacagaatg gtaaacagat 660
agctatatta cacaatgaga taagtgcttc aataacaata tagagctgta agggagtgaa 720
ttgaagagat actcccctat tcttaaatgt tcagtgaaat tcctttgtcc caaagcgcta 780
gttaaacgaa gc                                                    792
```

<210> 398
<211> 1293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 208075.1

<220>
<221> unsure
<222> 540-668
<223> a, t, c, g, or other

<400> 398
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gaagttttac tatgtttaat aatttagtga aatttgggct atgtgtttat tgattcagct 60
caatccagag gaaaatttta aaggcttaca gccttaggat tataggatac tatataatac 120
ttttggtaca gagatagaat taaataacat aaaaatcaaa aatttattag gctaaaattt 180
tgagggagaa gtggtatgaa aatacaaatt caaggagtaa aaggaaaagt ggggcattcc 240
ttgctactaa aaattgcctt gttccaggta agactgatca taaaaaaatg gccctgttca 300
taaaatttt aaaaagatca tagtatctat caaataactt atattaagaa cctcctgggc 360
taaatttaaa aagtaataca acagttttat ttaaacatgt agtgtctacg gtatgccagc 420
actttgcagc tatttataat gagaaatttt agatgtcaat atagcaatgt gcaagaagat 480
agagattttc aaaattcact taagagtatc tgagcataaa atgttaagat tgctgatcgn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
```

```
nnnnnnnncg cgctccgtcg aagaggacga ccatccccga tagaggagga ccggtcttcg 720
gtcaagggta tacgagtagc tgcgctcccc tgctggaacc tccaaacaag ctctcaagat 780
tgctgatcta gggccactaa gtgatgaagc aaaaaggatg gctaaaaagg acctcaaccc 840
ttttgacttt aaaaggaaaa tagcttaacc ttcaacctgt gtgacattta acttttttgaa 900
cccaaccgta aaagctatct tctaaccaac aaaaagttaa taattacatt tggaattata 960
cagaattaga aaattggcat ttaaaaatac tcaataattt gtccctggtt tttaatttttc 1020
aaaatatttt cttttttgaag agccagattc cagtgatcct gcctctcaga aatttccaca 1080
tttcttattt ttcattaggc cttaagaagc tgcatttgta aacttgtgtt tcattattaa 1140
agcttaattt atttttttata taaatagtat gtgctttgtg tacatagaga attaagtgaa 1200
tgagtcacac agatgttggc tgttgttaat gtgaaaatta aacagctgta tcacattttg 1260
aaaaataaaa gtttcatctg aatgaatata aaa                               1293
```

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<210> 399
<211> 2521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 209279.1

<400> 399
aaaaaatatg tcactgacac ataacaaatg agggcagaaa tggcattgtt cccatctggg 60
gaagagcctc aagggtgggc agtatacaaa acatgaccct ttgccagatt ctaactggtc 120
cagtgcccaa tcccattgat agaaactcaa ccaatgcaaa cctcagcctg caagctccga 180
aggggcagag tgcaagccgg tagcttttgc ctcctggagc ccacagtcca gatgggggaca 240
aaaaaagaga tagggacaca aagagtgatc actgagccag agggtggaaa ggtgcttagg 300
agacatgagc tgcttggagg cagagtcctg cttggaagct gttggttgat tcctgggcaa 360
gccacttccc ctcctgggcc tgggtttttca tctgtaaatg aaggcgtgga tccagatctc 420
cctctaagac tactccacgc ctcacgtgcc atttgttctc tgagtttccc atgttctcgc 480
ctcctactac ctagccctat gctaggactc tccctccag gacacagtag ccagcctagc 540
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tggaggtggc cccatgtctc cagcctcccc tggaagctcc cacccccctc attgttcagt 660
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ctcactctcc aggtgccagt tttgctccct gcctcagcct ggtttacata cagtgtatgt 780
gacggggctt ggtcactgct ggggcagccc tgtggaaggt ggaggggacc gagcatgcat 840
gagcttcagg ctgagacagt cccagctcag aaccctggag tgcttgttcc ctccctttct 900
gctcttcctc ttccattgca cccactggac ccaagagcat gcaaggattg actcacccag 960
tgatgctaga actatgtatt catgctgaaa gtaaggggggt gggggcatcc aaccaggggc 1020
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taaatccaga tagaataaga agcgaaggcc gttacagcag agagaaagtt gagtcaagca 1140
gagatcagat actaaagaca ctagactaac cagacattcg ggccctcagt tgaacagctg 1200
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386

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